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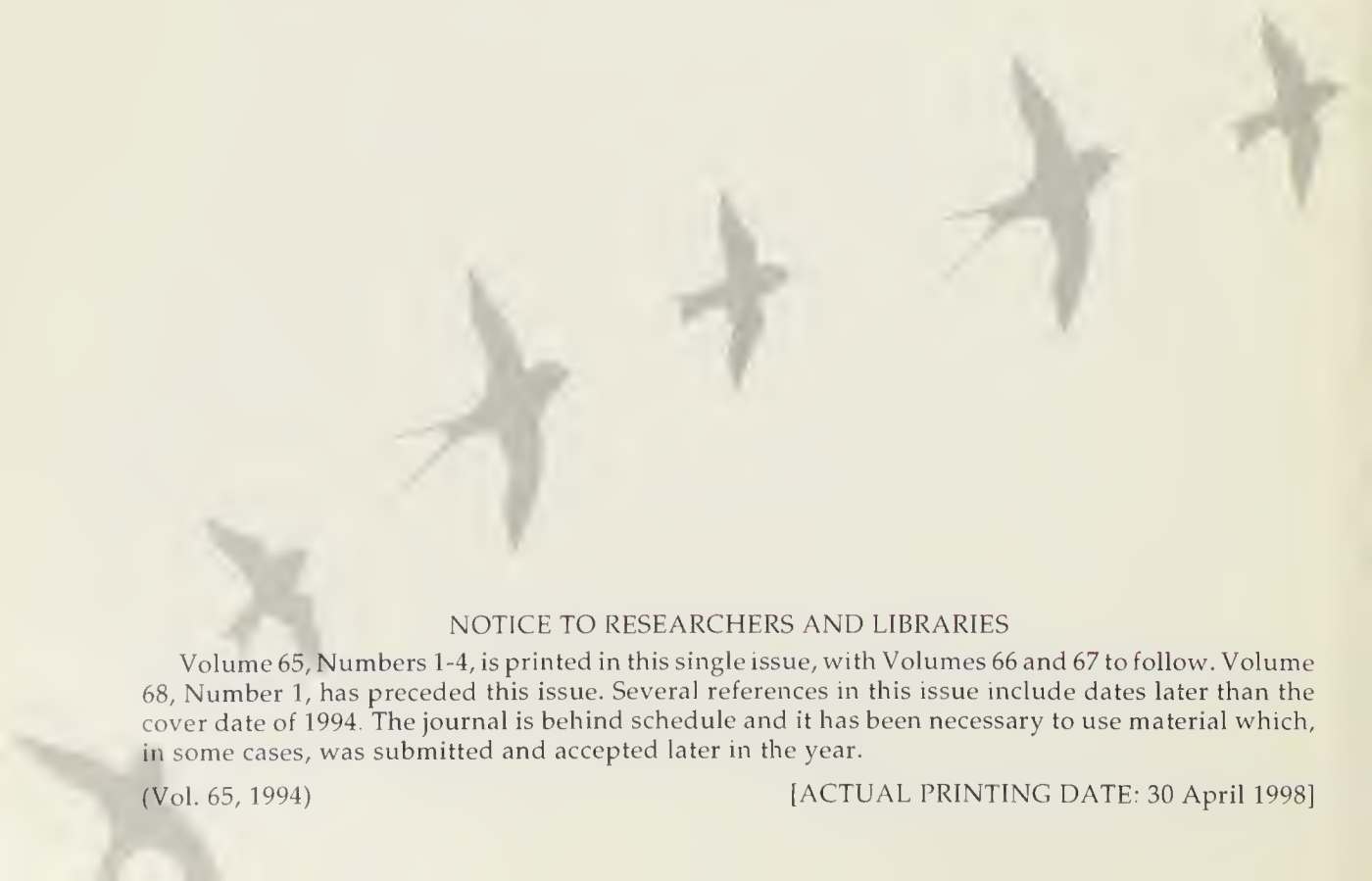

NOTICE TO RESEARCHERS AND LIBRARIES

Volume 65, Numbers 1-4, is printed in this single issue, with Volumes 66 and 67 to follow. Volume 68, Number 1, has preceded this issue. Several references in this issue include dates later than the cover date of 1994. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

(Vol. 65, 1994) [ACTUAL PRINTING DATE: 30 April 1998]

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The Migrant

A Quarterly Journal
Devoted To Tennessee Birds

Published by
The Tennessee
Ornithological
Society

1995 Annual Issue
Volume 66

THE MIGRANT

AQUARTERLY JOURNAL OF ORNITHOLOGY

PUBLISHED BY

THE TENNESSEE ORNITHOLOGICAL SOCIETY

The T.O.S. is a non-profit, educational, scientific, and conservation organization.

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(Revised February 1998)

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The Migrant, 66 (1) 2, 1995.

MOBBING AMERICAN CROWS STRIKE BARRED OWL

Ann T. Tarbell
6033 Sherwood Drive
Nashville, TN 37215

American Crows (*Corvus brachyrhynchos*) frequently torment owls with raucous clamor and veering, darting attacks (Bent 1938; Brewster 1937). Often an owl can be located by such a cawing mob of excited birds. They apparently inflict no injury and rarely strike an owl, although Bent writes that he has twice seen them hit a Great Horned Owl (*Bubo virginianus*). In this note I report the mobbing of a Barred Owl (*Strix varia*) by American Crows who repeatedly struck the raptor.

On 2 April 1970 at 1030 hr I watched a Barred Owl with 7x35 binoculars from a distance of about 10m in a wooded lot in Forest Hills, a suburb of Nashville, Davidson County, Tennessee. Perched low on a small tree, it awkwardly climbed higher, spreading its wings and tail and eventually reaching a high horizontal branch near the top. Several crows discovered it and yelling loudly flew to the attack. At first they merely cawed and darted and dived at the owl who stayed and drew in its head. Growing bolder, the birds began to fly in a circle over their victim and, as each crow passed above, it let down its legs and whacked the owl on head and back. The attackers dropped their legs and feet in a stiff, straight position and not in a clawing posture. The crows circled faster and lower and buffeted the owl hard enough to tip and tilt the big bird but not enough to knock it from its perch. The owl made no move to defend itself. After about five minutes, tired of the persecution and the blows, it flew deep into a thick Eastern Red Cedar (*Juniperus virginiana*) tree. Two crows followed it to the tree but soon they all dispersed.

The Barred Owl was apparently uninjured; I saw it later in the day near the same tree.

LITERATURE CITED

Bent, A.C. 1938. Life histories of North American birds of prey, part 2. *U.S. Nat. Mus. Bull*, No. 170. Dover Publications ed. 1961. Pp: 195, 318.

Brewster, W. 1937. Concord River, selections from the journals of William Brewster. S.O. Dexter, ed. Harvard University Press, Cambridge. Pp: 64-65, 130-131.

Submitted 4 August 1995.

The Migrant, 66 (1): 3-4, 1995.

MINUTES OF FALL 1994 TOS BOARD OF DIRECTORS MEETING

The Fall 1994 Symposium of the Tennessee Ornithological Society was held at the Days Inn of Hurricane Mills on 29 October 1994. Dr. Bob Cooper of the University of Memphis moderated the symposium, consisting of 10 presentations.

The minutes of the Spring 1994 Directors' meeting were approved as written.

COMMITTEE REPORTS: There were no VICE PRESIDENTIAL or DIRECTORS-AT-LARGE REPORTS, except that Director-at-Large David Hassler reported the State of Tennessee has purchased 5,000 acres on the Cumberland Plateau. Middle Tennessee Vice President Ann Tarbell, representing the Nashville Chapter, invited TOS to conduct its Spring 1995 meeting in Nashville at the Ramada Inn at I-65 and Harding Place, 5-7 May 1995.

TREASURER'S REPORT: George Payne, Jr. (complete report in Secretary's files). Current assets were $45,092 in three accounts. Anticipated expenses are the publishing of eight issues of ***The Migrant*** and the *Breeding Bird Atlas* in 1995 for $17,500 and $12,106, respectively. INCOME since Spring meeting: $1,595 in dues; $1,097 in interest, $9 miscellaneous. EXPENSES since Spring meeting: ***Migrant*** $1,733; *Warbler* $431, miscellaneous $215. MEMBERSHIP: 918 paid memberships, with a roster still due for the Upper Cumberland Chapter. This compares to 896 members for 1993. BUDGET FOR 1995: Projected income $17,450; projected expenses $17,400.

CURATOR: No report.

MIGRANT EDITOR Wallace Coffey reported the December 1992 issue is to be mailed by mid-November 1994. He plans a slightly faster schedule to catch up on back publications.

BREEDING BIRD ATLAS: Chuck Nicholson is revising the manuscript and expects printing in 1995.

RECORDS COMMITTEE: Rick Knight advised of a reorganized Committee, with new guidelines, as published in *The Warbler*. The Committee will send Bob Hatcher updates for the Bird Checklist.

CONSERVATION COMMITTEE: Bob Hatcher displayed the new bluebird license plate, which will be available from all central County Clerk offices after April 1, 1995. Approximately 90% of the $25 extra license cost will be deposited in the Watchable Wildlife Endowment Fund. The fund's earnings will be used for support of Tennessee's rare and nongame wildlife.

The Tennessee Wildlife Resources Agency (TWRA) will seek legislation for more adequate and dependable nongame funding at the state level; this could include a surcharge on speeding violations and a royalty fee on sand and gravel. The Wildlife Resources Commission will recommend a state package on 22 November 1994.

At the federal level, Congress is expected to introduce in the spring of 1995 a bill patterned after the user fees on hunting and fishing equipment. This could provide up to $6.3 million in federal funds annually for Tennessee nongame wildlife. It would require $2.1 million in state matching funds. Bob Hatcher urged everyone to: (1) advise major suppliers of wildlife viewing equipment that they favor paying such a user fee for the benefit of nongame wildlife, and (2) contact their state legislators and Congressmen concerning these state and federal funding, respectively. Information will be provided for *The Warbler* and Chapter newsletters.

EDUCATION COMMITTEE: Candy Swan reported that a teacher's guide is available through TWRA for interpreting *Wildlife Viewing Guide in Tennessee.*

WARBLER EDITOR Theresa Irion reported a deadline of January 31 for articles to be published by late February 1995.

George Payne, Jr. advised that updated membership rosters should be sent to him by 1 February so that everyone can receive *The Warbler.*

PARTNERS IN FLIGHT: Bob Ford reported that data from point and other bird counts are being entered in TWRA database.

BEN COFFEY MEMORIAL FUND: Susan McWhirter reported on the availability of a tape of birds of the Mid-South, based on Ben Coffey's recordings.

JACK EMBURY: Jim Ferguson reported the loss of John H. (Jack) Embury, Jr., who died on 27 October 1994 at age 81. Embury was the Memphis Chapter's last charter member (since 1929).

EXPANDED CHECKLIST: Bob Ford proposed an expanded bird checklist as a future item of discussion when funds are available.

WINTER MEETING: Wallace Coffey made a motion that the TOS Winter meeting be renamed "Annual Planning Retreat." The group would not take official action, but everyone is invited to provide input to the Board. The motion passed.

The next Annual Planning Retreat is proposed at Pickwick Landing State Park at Savannah on 4-5 February 1995. Field trips will be held 4-5 February; the planning meeting will be on 4 February.

Respectfully submitted,
BOB HATCHER, TOS Secretary

MINUTES OF 1995 TOS ANNUAL PLANNING RETREAT

The Mid-Winter Annual Planning Retreat of the Tennessee Ornithological Society was held at Pickwick Landing State Park at Savannah on 4-5 February 1995.

EDUCATION COMMITTEE: Martha Waldron recommended coordination with the CENTS program via Dr. Mary Ball's curriculum, using the *Tennessee Wildlife Viewing Guide* as a resource for reaching junior high school students.

President-elect James Brooks recommended working with scout groups. He pointed out that few Boy Scouts seek to qualify as Eagle Scouts, via the ornithological requirements, which are more excessive than other disciplines. It was suggested that TOS recommend that the Scout merit badge requirements be made more attractive, but not "watered down." Birding should be reinstated as a requirement of all Eagle merit badges. James Brooks could pursue this with the National Scout headquarters and seek a coalition to work with TOS. If appropriate, seek Spring TOS Resolution (see below).

Ron Hoff recommended cooperation with the Nature Conservancy in educational/conservation programs.

It was recommended that TOS members offer their services to speak to school classes about birds and also offer to become mentors to interested youth concerning birding.

****

A RESOLUTION PERTAINING TO THE WILDLIFE DIVERSITY FUNDING INITIATIVE

WHEREAS, Americans have a growing interest in observing and enjoying birds and other wildlife in their natural habitats; and,

WHEREAS, more and more Americans are becoming interested in wildlife conservation, recreation, and education; and,

WHEREAS, we lack critical knowledge about the vast majority of birds and other wildlife species and their necessary habitat requirements for survival; and,

WHEREAS, there are more than 1,800 species of wildlife in the United States that receive less than five percent of all funding available for wildlife; and,

WHEREAS, the Sport Fish and Wildlife Restoration Acts have provided billions of dollars for the conservation of game and sport fish species through a self-imposed surcharge on hunting and fishing equipment purchased primarily by people who hunt and fish; and,

WHEREAS, these acts have created a successful and reliable source of funding for conservation and management of game and sport fish species; and,

WHEREAS, an act could expand the list of equipment so that other wildlife enthusiasts could contribute to the conservation and management of 95 percent of the wildlife species that are not currently managed; and,

WHEREAS, this modest surcharge on some outdoor products could raise $350 million annually for state wildlife agencies earmarked for use in bird and other wildlife conservation, recreation and education projects throughout the country and would help keep common species common; and,

WHEREAS, this act would be titled the Wildlife Diversity Funding Initiative and would benefit all species of wildlife;

NOW THEREFORE, BE IT RESOLVED, that the Tennessee Ornithological Society, now in its eightieth year, in annual meeting May 6, 1995 in Nashville, Tennessee, supports the Wildlife Diversity Funding Initiative and urges legislation to provide funding through the user pay/user benefit concept of a modest surcharge on outdoor equipment.

****

MEMBERSHIP COMMITTEE: It was recommended that TOS evaluate the possibility of advertising in *The Warbler* newsletter and/or ***The Migrant***. The reason is that costs are excessive for more than two newsletters per year — in spite of prior TOS plans for three or four issues per year. More newsletters would hopefully increase and/or maintain memberships. Bob Ford will explore this with *The Warbler* editor.

Bob Ford reported George Payne would like a change from his long-term position as Treasurer and Membership Chairman. The Nominating Committee is seeking a new Treasurer and may separate Treasurer and Membership Chairman duties.

Susan McWhirter recommended that At-large members be assigned to their nearest chapters in order to receive their newsletters. There were 26 At-large members one year ago.

It is recommended that new members begin to receive current releases of the newsletter and *The Migrant* during the time of their membership.

President-elect Brooks has a goal of visiting at least one activity of each chapter during his tenure. He would like each chapter newsletter sent to him at: 114 Malone Hollow Rd., Jonesborough, TN 37659.

MIGRANT ASSOCIATE EDITOR Rick Knight reported that all four 1993 issues are at printers to be typeset and expects at least three to be mailed before the Spring 1995 meeting. No manuscripts are in yet for 1994 issues.

James Brooks is interested in an article about Black-crowned Night-Herons and invites others to share notes.

SEASON REPORTS: Morris Williams reported that beginning with the 1994 *Migrant* issues, statewide season reports will be combined.

FUTURE MEETINGS AND FORAYS: The East Tennessee Foray, Grainger and Hamblen Counties, will be held Memorial Day weekend, 1995, headquartered in Morristown. It could include all of Cherokee Lake and the French Broad, Holston and Clinch Rivers.

The Summer Planning Meeting will be held the last weekend of June 1995 at Frozen Head Park, north of Oak Ridge.

STATE CHECKLIST: Rick Knight reported that Larry McDaniel has compiled an expanded checklist. Rick Knight will request that McDaniel take it to the Spring meeting for evaluation and assessment of funding.

FUNDING INITIATIVE: Bob Hatcher reported that BLUEBIRD LICENSE PLATES will be available after April 1 from County Clerk offices and encouraged TOS' strong support.

TWRA will not pursue a sand/gravel royalty fee and spending surcharge fee in 1995 because STATE LEGISLATION leaders have advised they will not support them. However, an appropriation will be sought.

Bob Ford and Bob Hatcher reported a national user fee (excise tax of up to 5%) is proposed for FEDERAL LEGISLATION. It would raise up to $350 million nationally for conservation, recreation and education as related to nongame wildlife. Tennessee's federal share would be $6.3 million. TWRA would need $2.1 million in state funds to match it for a total package of $8.4 million. TWRA proposes an orientation for conservation organizes across the state in mid-1995. Bob Ford will ask for a Spring Meeting Resolution in support of it.

Respectfully submitted,
BOB HATCHER, TOS Secretary

The Migrant, 66 (1): 7-17, 1995.

THE 1994 CHRISTMAS BIRD COUNT

Susan N. McWhirter

Twenty-one separate counts comprise the 1994 Christmas Bird Count for Tennessee. The weather leading up to the count period was typical of early winter in Tennessee; in other words, it was unpredictable and, at times, bizarre with warm, spring-like temperatures more common than cold. The first hard frost (freeze) for Memphis was the latest on record, and there were azaleas in bloom the week before the count. On December 28 I observed a bat flying in Warren County (middle Tennessee). Bird species recorded for the count reflect the lateness of the onset of winter-like weather with several western wanderers such as the Pacific Loon (possible second TN record), Yellow-headed Blackbird, at least two hummingbird species, Townsend's Warbler (possible first TN record), and "Bullock's" Northern Oriole. In addition there was the relatively large number of late lingering migrants such as Great-crested Flycatcher, Eastern Kingbird, Blue-gray Gnatcatcher (four counts), Swainson's Thrush, Gray Catbird (five counts), Rose-breasted Grosbeak, and several warbler species.

Please note: m.ob. = multiple observers; CW = count week (species seen three days before or after the count day). The counts are tabulated from west to east.

MEMPHIS: 18 Dec.; 0600-2100; clear; temp. 39-49°F; wind NW, 10-15 mph; 35 observers in 6-10 parties; 127 total party hours (96 on foot, 31 by car); 165 total party miles (64 on foot, 101 by car); 96 total species; 1,213,514 individuals. The Red-winged Blackbirds totaled 1,201,712, which includes one roost at Ensley Bottoms that was estimated at having 1.2 million individuals. Dianne Bean, Erin Bergin, Storm Bergin, David Blaylock, Carolyn Bullock, Fred Carney, Lula Coffey, Bob Cooper, Helen Dinkelspiel, Jim Ferguson, Bob Ford, Bill Fowler, Murray Gardler, Adam Griffin, Ron Griffin, Van Harris, Martha Heinemann, Bob Ilardi, Keith Kunkel, Peggy Kunkel, Selma Lewis, Mac McWhirter, Susan McWhirter, Joyce Morrison, George Payne, Jeanne Payne, Rob Peeples, Dick Preston, Ernie Restivo, Virginia Reynolds, Martha Waldron (compiler-1626 Yorkshire Dr., Memphis 38119), Barbara Wilson, Richard Wilson, John Zempel, Linda Zempel.

REELFOOT: 17 Jan.; 0630-1715; partly clear with fog in AM, clear in PM; temp. 30-52°F; wind SW, 5-10 mph; 11 observers in 5 parties; 49 total party hours (13 on foot, 29 by car) plus 1 owling; 450.5 total party miles (11.5 on foot, 428 by car, plus 10 owling); 109 species; 296,516 individuals. Documentation submitted for Tundra Swan (JW, m.ob), Lesser Yellowlegs (JW), Greater Yellowlegs (JW), Least Sandpiper (JW), and LeConte's Sparrow (JW). W. G. Criswell, Donald Doster, Joe Francis, Mark Greene (compiler-1826A Mitchell St., Humboldt 38343), Joe Guinn, Paul Hertzel, Rebecca Irwin, Jim Johnson, Dick Preston, Bettie Sumara, Jeff Wilson.

JACKSON: 31 Dec.; 0530-1730; cloudy with light rain; temp. 48-52F; wind SW, 5-10 mph; 6 observers in 4 parties; 37 total party hours (12 on foot, 25 by car) plus 1 owling; 360 total party miles (8 on foot, 352 by car) plus 6 owling; 72 species; 44,020 individuals. Bob Ford, Mark Greene (compiler-1826A Mitchell St., Humboldt 38343), Bill Reinke, Joyce Reinke, Jackie Utley, Lynn Williams.

SAVANNAH: 30 Dec.; 0230-1715; cloudy; temp. 42-57°F; wind NNW, 3-5 mph; 12 observers in 8 parties, plus 1 at feeder; 68.5 total party hours (25.75 on foot, 34.25

by car, 8.5 by boat) plus 3.75 owling and 4 at feeders; 390.3 total party miles (22.5 on foot, 322.8 by car, 45 by boat) plus 22.3 owling; 101 total species; 42,280 individuals. Documentation submitted for Greater Scaup (DS), Common Merganser (LN, MS), House Wren (DS, WR), Sedge Wren (DS, SM), Marsh Wren (DS), Orange-crowned Warbler (GM, FM), Townsend's Warbler (DS), Palm Warbler (SM, GM, FM), and Lincoln's Sparrow (DS). Documentation for the Townsend's Warbler has been submitted to the Tennessee Bird Records Committee; if accepted this would be the first Tennessee record. Judy Green, Tom Green, Lois Johnson, John Lehrter, Francis Markine, Gary Merkine, Steve McConnell, Larry Neill, William Rogers, Floyd Sherrod, Damien Simbeck (compiler-Rt. 1, Box 264, Killen, AL 35645), Pete Smith, Michael Soraczac.

BUFFALO RIVER: 29 Dec.; 0630-1700; cloudy; temp. 42-55°F; wind NE, 5-10 mph; 12 observers in 6 parties; 64.5 total party hours (18.5 on foot, 46 by car) plus 2.5 owling; 387.5 total party miles (18.5 on foot, 369 by car) plus 25 owling; 82 species; 8,413 individuals. Michael Buerlein, Connie Hollman, Chester McConnell, Dorothy McConnell, Royce Neidert, Jane Newell, Donnette Sellers, Harlie Sides, Don Simbeck (compiler-424 Riddle Lane, Loretto 38469), Eli Townsend, Fred Wiley, Morris Williams.

COLUMBIA: 2 Jan.; 0500-1700; clear to partly cloudy; temp. 21-40°F; wind SW, 3-8 mph; 10 observers in 5 parties; plus 3 at feeders; 38.75 total party hours (25.75 on foot, 13 by car) plus 14 at feeders; 278 total party miles (14 on foot, 264 by car); 91 species; 8103 individuals. Documentation submitted for Blue-gray Gnatcatcher (CB). Charles Boley, Steven Brinkley, John Ehinger, Gilbert Foster, William Jernigan, Allyn Lay, Anne Lochridge, Bedford Lochridge, George Mayfield (compiler-999 Sunnyside Dr., Columbia 38401), Mark Mayfield; plus Nancy Byer, Margaret Greene, Cleo Mayfield at feeders.

NASHVILLE: 17 Dec.; 0700-1800; temp. 40-62°F; no wind; 38 observers in 9 parties, plus 8 at feeders; 74 total party hours (29.75 on foot, 44.25 by car) plus 3 owling; 405 total party miles (31 on foot, 374 by car) plus 7.5 owling; 81 total species; 11,414 individuals. Documentation submitted for Anna's Hummingbird (m. ob., first state record, banded 1-5-95), Orange-crowned Warbler (JM, LK,BG,MZ,PC), and Northern (Bullock's) Oriole (AT, m.ob.). Sue Ansley, Sandy Bivens, Bob Brown, Jean Buchanan, Hazel Cassel, Phillip Casteel, Ralph Cazort, Booth Chapman, Roger Coleman, Richard Connors, Jerry Drewry, Harris Finkelstein, Bob Ford, Ed Gleaves, Barbara Harris, Bob Hatcher, Susan Hollyday, Linda Kelly, Ed Landers, Joe McLaughlin, Diana McLusky, Gail Miller, Dick Newton, Elizabeth O'Connor, Lee Patrick, Brenda Proffitt, Robin Reynolds, Cathy Schlessman, Janet Shaw, Cheryl Strong, Ann Tarbell (compiler-6033 Sherwood Dr., Nashville 37215), Oscar Trouster, Janet Troup, Ed Tune, Bob Van Kirk, Rita Venable, Mary Zimmerman.

HICKORY-PRIEST: 1 Jan; 0500-1715; cloudy with light rain; temp. 32-52°F; wind NW, 5-10 mph; 14 observers in 6 parties; 57 total party hours (26 on foot, 31 by car) plus 3 owling; 366 total party miles (20 on foot, 346 by car) plus 4 owling; 85 species; 16,294 individuals. Linda Anderson, Richard Connors, Jerry Drewry (compiler-1425 Cowan Ct., Nashville 37207), Boud Gross, Dan Jacobson, Linda Kelly, Lee Kramer, Joe McLaughlin, Dick Newton, Chris Sloan, Joe Stone, Ann Tarbell, Sabin Thompson, Betty Worden.

MURFREESBORO: 7 Jan.; 0630-1700; cloudy with light snow showers; temp. 30-36°F; 16 observers in 11 parties; 21.5 total party hours (2 on foot, 19,5 by car) plus 12 feeder hours; 223 total party miles (3 on foot, 220 by car); 49 species; 3200 individuals. Bertha Chreitzburg, Jim Chreitzburg, Scott Dagenhartt, Richard Hunter, Wilma Hunter (compiler-3659 Wilson-Overall Rd., Murfreesboro 37130), Bill Irvin, Lou Irvin, Daniel McCarroll, Pat Martin, Jane Newberg, Matt Newberg, Rebecca Odom, Robin Reynolds, Ferrell Wilson, Carol Witt, Terry Witt.

WILSON CO.: 7 Jan.; 0800-1200; cloudy with sleet; 30-35°F; wind 17 mph; 1 observer plus 4 feeder watchers; 8 total party hours (3.5 on foot, 4.5 by car); 42 species; 784 individuals. The Rufous Hummingbird has been present at a feeder all winter; it was identified and banded by hummingbird expert Bob Sargent of Alabama. Ramona See, plus feeder watchers Earline Berry, V.C. Berry, Kay Norris (compiler-1609 Ponderosa Trail, Lebanon 37087), Jean Tate.

MANCHESTER: 31 Dec.; 0400-1600; cloudy with misty rain; temp. 42-53°F; wind S, 8-10 mph; 24 observers in 12 parties plus 1 at feeder; 48 total party hours (7 on foot, 41 by car) plus 1 owling and 1 at feeder; 488 total party miles (15 on foot, 473 by car) plus 12 owling; 94 species; 19,095 individuals. Documentation of the Pacific Loon with photographs has been submitted to the Tennessee Bird Records Committee; this would be the first CBC record and the second state record. G. Dwain Adams, Joyce Adams, John Bruner, Lois Bruner, Tom Burleson, Sr., Tom Burleson, Jr., M.E. Campbell, Don L. Davidson (compiler-1703 2nd. Ave., Manchester 37355), Glen Estep, Jerry Ingles, Ruth Luckado, Jose H. Martinez, Elaine McKelvey, Nicky Medley, Phil Medley, Chloe Pebbles, Howell Pebbles, Jim Peters, Erma Rogers, Mary E. Shelton, Quincy N. Styke, Sue Wakeman, Ann Wells, Grady york, Wilma York.

NICKAJACK LAKE: 2 Jan.; 0500-1730; sunny to partly cloudy; temp. 22-39°F; wind WNW then N, 5-20 mph; 18 observers in 9 parties; 77 total party hours (49 on foot, 28 by car) plus 7.75 owling; 369 total party miles (18.5 on foot, 350.5 by car) plus 66.75 owling; 101 species; 44,135 individuals. Documentation submitted for Peregrine Falcon (JH, LW), Golden Eagle (JD, CS, RRo), Long-eared Owl (TR, CB), Orange-crowned Warbler (BH), Common Yellowthroat (DJ, KC), and Yellow-headed Blackbird (JP, DJ). First CBC records for Golden Eagle, Long-eared Owl, Orange-Crowned Warbler, and Common Yellowthroat. Record high numbers for Black and Turkey Vultures, Red-tailed Hawk, Red-headed Woodpecker, Red-bellied Woodpecker, Eastern Phoebe, Winter Wren, Ruby-crowned Kinglet, Hermit Thrush, American Pipit, Loggerhead Shrike, White-crowned Sparrow, and Rusty Blackbird. Record low numbers for waterfowl, with totals barely over half the average. Clyde Blum, Mary Lynn Butttram, Kevin Calhoon, Jerry Drewry, Bill Haley, John Henderson, Daniel Jacobson, Kathy Jacobson, Johnny Parks (compiler-RR 7, Box 3720, Ringgold, GA 30736), Peter Robinson, Ronald Rogers, Tommie Rogers, Robin Rudd, Chris Sloan, Joe Stone, Beverly Swafford, Carl Swafford, Sabin Thompson.

COOKEVILLE: 19 Dec.; 0615-1650; cloudy in early AM then clear; temp. 28-51°F; wind variable 0-10 mph; 14 observers in 6 parties, plus 4 at feeders; 59 total party hours (18.25 on foot, 40.75 by car) plus 3.5 owling and 14 at feeders; 370 total party miles (10 on foot, 360 by car) plus 43 owling; 75 species; 90,678 individuals. The Red-breasted Merganser and Palm Warbler were new to this count. Frank Bulow, Eileen Cartwright, Dan Combs, Graham Kash, Julie Pharr, Helen Redding, Tom Roberts, Ann Sanders, Thomas Saya, Joanne Schaefer, Richard Simmers, Barbara

Stedman, Stephen Stedman (compiler-2675 Lakeland Dr., Cookeville 38506), Evelyn Stites, John Stites, Jan Tate, Winston Walden.

CHATTANOOGA: 17 Dec.; 0730-1730; cloudy to partly cloudy; temp. 40-53°F; wind S, 0-8 mph; 26 observers in 13 parties, plus 1 feeder watcher; 113.25 total party hours (73.5 on foot, 39.75 by car) plus 4.5 at feeder and 10.25 owling; 713.5 total party miles (48 on foot, 665.5 by car) plus 57 owling; 100 species; 29,332 individuals. The hummingbird was apparently a *Selasphorus* species. Documentation submitted for Blue-gray Gnatcatcher, Sedge Wren, and Eurasian Collared Dove (dove information submitted to TN Bird Records Committee). Nelson Bennett, Jeff Boehm, Phil Booth, Mary Lynn Buttram, Kevin Calhoon, Jack Colcolough, Ken Dubke, Lil Dubke, Bill Haley, John Henderson (compiler-7323 Fairington CL., Hixon 37434), Dan Jacobson, Al Jenkins, Johnnie Sue Lyons, Barbara McMahan, Mike McMahan, Tom Patton, Peter Robinson, Ron Rogers, Tommie Rogers, Robin Rudd, Harriet Spiegel, David Vogt, Rick Waldrop, Dan Williams, Libby Wolfe, Ron Wolfe.

HIWASSEE: 31 Dec.; 95 species; 20,664 individuals. Kevin Calhoon (compiler-1185 Mountain Creek Rd., Chattanooga 37405.

KNOXVILLE: 18 Dec.; 0645-1715; temp. 39-47°F; wind WSW, 0-9 mph; 35 observers in 14 parties; 87 total party hours (51 on foot, 36 by car); 441 total party miles (31 on foot, 409.5 by car); 85 species; 32,861 individuals. Jane Beintema, Frank Bills, Sharon Bostick, Carol Coleman, Dennis Coskren, Marcia Davis, Jeffrey Duncan, Mary French, David Highbaugh, Audry Hoff (compiler-4523 McCloud Rd., Knoxville 37938), Tom Howe, David Howell, Susan Hoyle, Kris Johnson, Burt Jones, Joel Keebler, Tony Koella, Steve Krauss, Bettie Mason, James Mason, Bill McNutt, Charles Nicholson, Holly Overton, W. Kelly Roy, Martha Rudolph, Robert Russell, Michael Ryon, Debbie Searfoss, Boyd Sharp, Tim Snow, Rosa Strait, Bill Sullivan, Allan Trently, David Trently, Craig Walker, Christopher Welsh.

GREENEVILLE: 27 Dec.; 0700-1800; sunny; temp. 27-55°F; wind light and variable; 18 observers in 8 parties plus 5 at feeders; 32.5 total party hours (7.5 on foot, 20.5 by car, 4.5 by boat) plus 22.5 at feeder; 221.5 total party miles (6.5 on foot, 213 by car, 2 by boat); 72 species; 6,496 individuals. Documentation submitted for Great-crested Flycatcher and Eastern Kingbird (both JH,LH). Orland Britton, Phine Britton, Cynthia Cragin, Herb Cragin, Marjorie Earnest, Allison Gaut, King Gaut, Margaret Gaut, Will Gaut, Juanita Heckert, Lenard Heckert, Barbara Holt, Carrie Holt, Jim Holt (compiler-311 Colonial Cl., Greeneville 37745), Alice Loftin, Don Miller, Richard Nevius, Joanne Routledge, Larry Routledge, Helen Spees, Royal Spees, Virginia Williams.

KINGSPORT: 22 Dec.; cloudy with drizzle in PM; temp. 41-55°F; 8 observers in 5 parties; 35 total party hours (9 on foot, 26 by car) plus 0.5 owling; 272 total party miles (6 on foot, 266 by car) plus 6 owling; 71 species; 10,272 individuals. George Larkins (compiler-124 Bloomingdale Pk., Apt. A-10, Kingsport 37660). Documentation submitted for Surf Scoters, House Wren, Palm Warbler, and Chipping Sparrows (all Rick Knight).

ELIZABETHTON: 18 Dec; 0600-1800; mostly cloudy; brief, localized rain/sleet/snow flurries; temp. 44-32°F; wind NW, 5-15 mph; 17 observers in 6 parties; 48.5 party hours (23.5 on foot, 25 by car) plus 2.5 owling; 357 party miles (11 on foot, 346 by car) plus 9 owling; 71 species; 7,700 individuals. Documentation submitted for

Swainson's Thrush (WC). Fred Alsop, James Brooks, Wallace Coffey, Brian Cross, Rusty Dunn, Beth Hogan, Teresa Hutson-Feliu, Rick Knight (compiler-804 N. Hills Dr., Johnson City 37604), Geoff Larson, Larry McDaniel, Tom McNeil,Charles Moore, John Shumate, Craig Stevens, Stan Strickland, Gary Wallace, Frank Ward.

BRISTOL: 1 Jan.; 0530-1830; overcast; temp. 43-48°F; wind variable, 0-5 mph; 21 observers in 6 parties; 52 total party hours (26 on foot, 26 by car) plus 4 owling; 411 total party miles (12 on foot, 399 by car) plus 36 owling; 76 species; 10,957 individuals. Rob Biller, Ron Carico, Wallace Coffey, Jane Fleenor, Pat Galliher, John Gibson, Martha Gibson, Bert Hale, Ken Hale, Loraine Hale, Ron Harrington, Lloyd Jones, Richard Knight, Phillip Lewis, Richard Lewis (compiler-407 V.I. Ranch Rd., Bristol 37620), Geoff Larson, Larry McDaniel, Karen Quesenberry, John Shumate, Lori Shumate, Ramsey White.

ROAN MOUNTAIN: 17 Dec.; 0600-1700; cloudy, with fog above 4000 ft. elevation; intermittent mist; temp. 35-45°F; wind w, 0-5 mph; 4 observers in 2 parties; 16.5 party hours (10.5 on foot, 6 by car) plus 1.5 owling; 121 party miles (7 on foot, 114 by car) plus 1 owling; 50 species; 1086 individuals. Fred Alsop, Rick Knight (compiler-804 N. Hills Dr., Johnson City 37604), Tom McNeil, David Sams.

1994 CHRISTMAS BIRD COUNT

Species	Memp	Reel	Jack	Sav	BufR	Colu	Nash	Hick-Pr	Murf	Wils	High	Nick	Cooke	Chat	Hiwas	Knox	Gree	King	Eliz	Bris	Roan
Pacific Loon	*	*	*	*	*	*	*	*	*	*	CW	*	*	*	*	*	*	*	*	*	*
Common Loon	*	6	*	6	*	*	*	33	*	*	11	5	*	26	3	3	*	1	1	7	*
Pied-billed Grebe	24	104	3	19	4	7	CW	45	2	*	12	99	1	44	3	16	*	28	3	19	*
Horned Grebe	*	7	*	6	1	*	*	119	*	*	95	2	*	59	4	4	*	14	*	*	*
Double-crested Cormorant	125	260	*	17	2	3	6	1	*	*	3	33	*	10	64	*	*	5	*	CW	*
Great Blue Heron	57	81	8	147	18	34	6	74	6	4	13	57	16	143	165	126	18	35	15	14	*
Great Egret	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1	*	*	*	*	*
Little Blue Heron	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Green Heron	1	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*
Blk-crowned Night-Heron	*	*	*	*	*	*	1	20	*	*	*	*	*	*	*	*	*	3	*	*	*
Tundra Swan	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	*
Gr. White-fronted Goose	*	122	*	*	*	*	*	*	*	*	CW	*	*	*	1	*	*	*	*	*	*
Snow Goose	17	142	*	*	*	*	254	1	*	*	*	*	*	*	*	*	4	*	*	*	*
Canada Goose	68	12,024	33	*	98	584	*	912	100	60	456	78	400	966	621	126	295	526	140	385	*
Wood Duck	27	9	3	10	2	4	16	8	8	*	3	18	19	40	7	17	5	*	2	*	*
Green-winged Teal	3	4	*	2	1	111	*	1	*	*	*	*	*	22	52	2	8	*	*	3	*
American Black Duck	*	1137	*	*	*	11	9	6	*	*	6	31	4	8	269	3	70	*	1	11	4
Mallard	436	93,145	12	7	37	302	164	356	*	*	107	137	13	632	1,715	345	112	873	130	518	2
Northern Pintail	*	58	*	*	1	1	3	3	*	*	1	1	*	2	19	*	*	*	*	2	*
Blue-winged Teal	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Northern Shoveler	4	22	*	CW	*	69	*	7	*	*	*	*	*	5	18	1	*	*	*	*	*
Gadwall	142	3,065	*	*	4	133	107	86	*	*	17	527	*	96	175	13	13	17	*	13	*
American Wigeon	3	216	*	*	*	163	43	*	*	*	2	1	*	41	50	1	2	*	*	51	*
Canvasback	*	335	*	13	*	10	20	*	*	*	*	2	*	*	41	*	*	*	*	*	*
Redhead	1	26	*	*	*	*	*	*	*	*	*	2	*	*	*	*	*	*	*	*	*
Ring-necked Duck	15	3,560	CW	*	1	389	215	*	*	*	23	24	*	8	49	17	*	146	15	34	*
Greater Scaup	*	5	*	1	*	*	*	*	*	*	11	4	*	6	1	*	*	*	1	*	*
Lesser Scaup	1	5,494	*	10	*	10	15	101	*	*	17	21	*	1	11	1	*	*	*	*	*
Oldsquaw	*	CW	*	*	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Surf Scoter	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	*	*	*

Species	Memp	Reel	Jack	Sav	BufR	Colu	Nash	Hick-Pr	Murf	Wils	High	Nick	Cooke	Chat	Hiwas	Knox	Gree	King	Eliz	Bris	Roan
Common Goldeneye	*	8	*	38	CW	*	*	3	*	*	5	11	*	43	*	*	*	*	*	1	*
Bufflehead	*	76	*	18	*	2	49	8	*	*	80	86	7	40	23	*	*	8	116	96	4
Hooded Merganser	15	26	2	2	12	41	1	2	*	40	13	10	31	21	167	17	*	1	*	149	7
Common Merganser	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Red-breasted Merganser	1	CW	*	3	*	*	*	*	*	*	57	*	CW	*	*	*	*	*	*	*	*
Ruddy Duck	*	4,310	*	*	*	21	*	1	*	*	4	60	*	*	20	*	*	*	*	*	*
Duck sp.	*	*	*	*	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Black Vulture	*	24	1	*	48	15	61	*	20	7	6	420	19	57	54	10	34	71	15	2	*
Turkey Vulture	2	5	11	21	177	3	37	1	*	*	122	112	42	94	3	35	55	118	12	52	*
Bald Eagle, adult	1	132	*	3	*	*	*	*	*	*	2	7	*	1	5	*	*	*	1	*	*
Bald Eagle, immature	1	110	*	*	*	*	*	*	*	*	*	3	*	*	3	*	*	*	*	*	*
Bald Eagle, unknown	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	2	*
Northern Harrier	17	17	4	16	21	5	2	2	1	*	5	3	2	*	4	*	1	*	*	*	*
Sharp-shinned Hawk	4	1	1	2	5	2	7	2	*	1	1	5	2	1	1	3	4	2	4	2	*
Cooper's Hawk	1	1	CW	*	1	4	4	2	*	*	5	3	7	12	4	3	5	5	1	5	1
Accipiter sp.	*	*	*	*	1	*	*	*	*	*	*	*	2	*	*	*	*	*	*	*	*
Red-shouldered Hawk	4	12	4	15	2	2	*	2	*	*	1	16	5	13	2	4	*	*	1	1	*
Red-tailed Hawk	75	61	45	19	39	43	45	24	15	1	34	56	55	37	13	30	16	14	8	15	2
Rough-legged Hawk	*	*	*	1	*	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Golden Eagle	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*
American Kestrel	29	43	40	11	41	28	28	18	50	2	32	20	73	16	7	19	21	32	22	32	1
Merlin	*	1	*	*	*	*	*	1	*	*	*	*	*	1	*	*	*	1	*	*	*
Peregrine Falcon	*	*	*	*	*	1	*	*	*	*	*	1	*	1	*	*	*	*	*	*	*
Ruffed Grouse	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	1	2
Wild Turkey	1	CW	*	13	CW	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Northern Bobwhite	1	23	2	8	30	30	19	14	*	*	*	2	24	12	5	*	1	*	9	8	*
Virginia Rail	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sora	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
American Coot	14	5,095	*	108	*	284	18	1,542	*	200	7	2,783	1	80	3	307	3	249	3	82	*
Sandhill Crane	*	*	*	*	*	*	*	*	*	*	*	*	54	CW	4,585	*	*	*	*	*	*

Species	Memp	Reel	Jack	Sav	BufR	Colu	Nash	Hick-Pr	Murf	Wils	High	Nick	Cooke	Chat	Hiwas	Knox	Gree	King	Eliz	Bris	Roan
Killdeer	191	652	23	447	71	195	87	122	15	*	4	81	90	199	162	279	17	58	149	102	13
Greater Yellowlegs	*	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lesser Yellowlegs	*	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Least Sandpiper	600	6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Dunlin	1	*	*	*	*	*	*	*	*	*	5	*	*	*	*	*	*	*	*	*	*
Common Snipe	22	10	1	1	30	3	*	80	*	*	8	30	*	53	28	5	1	*	6	3	*
American Woodcock	*	*	*	10	2	2	3	5	*	*	1	4	*	2	*	*	*	*	*	*	*
Bonaparte's Gull	16	531	*	244	*	1	*	135	*	*	7	1	2	100	34	55	*	2	*	1	*
Ring-billed Gull	84	2,130	CW	512	*	*	1	1,116	1,500	7	267	573	22	900	558	719	*	333	2	60	*
Herring Gull	*	10	*	21	*	*	*	*	3	*	1	1	*	10	2	1	*	*	*	1	*
Rock Dove	711	235	1,114	40	54	195	197	349	30	*	145	121	200	3,200	38	687	385	353	289	272	123
Mourning Dove	519	241	913	212	166	29	195	225	100	19	188	159	396	1,059	121	726	192	470	299	1,158	30
Eurasian Collared Dove	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	*	*	*	*
Common Barn Owl	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
Eastern Screech Owl	1	1	1	2	5	14	9	7	*	*	1	5	11	7	6	1	2	*	4	10	3
Great Horned Owl	1	3	3	2	1	19	19	5	1	*	2	10	1	9	3	1	*	2	*	8	*
Barred Owl	1	5	2	6	2	6	5	1	*	*	2	3	2	4	*	1	*	*	*	1	*
Short-eared Owl	*	1	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Long-eared Owl	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*
Anna's Hummingbird	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rufous Hummingbird	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*
Hummingbird sp.	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*
Belted Kingfisher	17	15	7	34	10	17	20	21	2	4	6	15	6	45	22	49	15	16	17	24	2
Red-headed Woodpecker	1	21	8	81	14	2	1	*	*	*	1	35	9	6	1	*	*	*	*	*	*
Red-bellied Woodpecker	137	98	29	86	62	58	81	30	13	3	17	72	58	80	34	65	34	25	14	32	*
Yellow-bellied Sapsucker	18	18	4	20	13	17	38	7	4	3	6	34	16	26	15	22	8	12	7	14	1
Downy Woodpecker	60	67	13	58	27	59	58	26	12	6	8	40	44	59	23	43	25	12	22	33	9
Hairy Woodpecker	14	4	1	9	7	8	10	2	1	*	1	7	3	13	5	9	2	8	5	5	4
Northern Flicker	109	100	55	64	49	39	66	37	8	4	11	51	49	99	28	76	18	18	24	23	1
Pileated Woodpecker	17	27	4	11	27	13	17	5	*	1	4	14	19	10	12	20	12	15	16	25	3

Species	Memp	Reel	Jack	Sav	BufR	Colu	Nash	Hick-Pr	Murf	Wils	High	Nick	Cooke	Chat	Hiwas	Knox	Gree	King	Eliz	Bris	Roan
Eastern Phoebe	5	4	3	11	10	4	7	*	*	*	4	30	9	13	7	6	15	1	5	6	6
Great-crested Flycatcher	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
Eastern Kingbird	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	*	*	*	*
Horned Lark	126	308	3	11	38	*	*	1	*	*	200	*	*	*	*	*	*	*	*	*	*
Blue Jay	242	74	284	361	553	74	183	117	70	14	178	241	166	344	169	260	95	182	89	176	7
American Crow	163	338	22,271	259	324	105	2,691	262	200	10	587	1396	342	592	366	808	196	563	1552	599	60
Fish Crow	*	2	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Common Raven	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	2	4
Carolina Chickadee	158	212	93	242	146	108	301	129	30	7	20	228	98	345	122	347	72	69	94	172	48
Tufted Titmouse	69	124	55	144	121	86	211	38	30	9	18	132	100	168	54	143	48	63	38	78	21
Red-breasted Nuthatch	*	1	1	*	1	*	1	2	*	*	*	*	*	*	*	*	*	*	*	*	8
White-breasted Nuthatch	4	52	7	29	25	14	46	*	*	4	5	30	29	49	8	16	11	12	8	23	9
Brown-headed Nuthatch	*	*	*	*	*	*	*	*	*	*	*	*	*	17	14	*	*	*	*	*	*
Brown Creeper	8	8	4	12	5	6	8	8	*	2	2	8	4	10	4	8	2	*	6	1	1
Carolina Wren	172	90	70	92	87	80	105	74	8	3	11	103	65	205	50	209	48	67	60	81	22
House Wren	1	6	1	2	1	3	*	*	*	*	*	2	CW	2	*	*	3	1	1	*	*
Winter Wren	7	5	5	3	5	9	*	6	1	*	4	24	8	13	9	11	2	7	7	4	3
Sedge Wren	*	*	*	4	*	*	*	*	*	*	CW	*	*	2	*	*	*	*	*	*	*
Marsh Wren	*	2	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Golden-crowned Kinglet	32	35	8	46	15	13	19	66	*	3	13	40	41	82	63	77	*	63	27	61	19
Ruby-crowned Kinglet	42	28	10	96	35	72	16	42	*	1	11	173	26	144	80	104	5	19	20	17	*
Blue-gray Gnatcatcher	1	*	*	*	*	1	*	*	*	*	*	*	*	1	*	1	*	*	*	*	*
Eastern Bluebird	40	75	83	216	294	175	146	86	21	17	52	197	205	331	148	166	77	109	53	158	13
Swainson's Thrush	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*
Hermit Thrush	11	9	17	11	23	12	10	8	1	*	3	48	15	4	26	4	*	5	4	8	2
American Robin	986	171	230	249	398	66	211	491	200	18	32	525	317	3098	2915	2666	268	912	201	837	50
Gray Catbird	*	*	*	*	*	*	*	*	*	*	1	*	*	1	1	*	1	*	*	1	*
Northern Mockingbird	85	34	54	28	102	61	119	107	50	2	65	76	54	112	39	127	51	59	31	78	5
Brown Thrasher	7	4	20	11	9	1	1	5	*	*	1	29	11	25	14	7	4	3	*	*	*
American Pipit	6	28	*	18	9	*	*	*	*	*	3	83	*	*	84	75	*	*	*	*	*

Species	Memp	Reel	Jack	Sav	BufR	Colu	Nash	Hick-Pr	Murf	Wils	High	Nick	Cooke	Chat	Hiwas	Knox	Gree	King	Eliz	Bris	Roan
Cedar Waxwing	70	59	3	276	150	23	42	*	*	*	130	283	155	465	316	720	26	772	373	593	*
Loggerhead Shrike	11	16	3	3	30	8	11	1	1	1	1	8	4	1	1	2	5	3	*	CW	*
European Starling	1,253	9,920	1,741	780	834	1,443	2,437	6,498	3,000	210	3,200	2,527	9,000	11,680	1,382	17,378	3,455	2,693	2,597	3,171	252
Orange-crowned Warbler	2	*	*	1	*	*	1	*	*	*	*	1	*	*	*	*	*	*	*	*	*
Nashville Warbler	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Yellow-rumped Warbler	126	132	16	209	42	87	68	130	13	11	8	241	137	262	210	278	32	141	114	57	1
Pine Warbler	4	*	*	20	2	2	*	*	*	*	2	16	*	28	48	*	1	*	*	*	*
Townsend's Warbler	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Palm Warbler	*	*	*	CW	*	*	*	*	*	*	1	1	CW	1	*	1	2	3	*	*	*
Common Yellowthroat	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*
Northern Cardinal	212	260	283	309	331	260	414	280	65	43	168	239	200	372	167	334	91	128	67	203	24
Rose-breasted Grosbeak	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rufous-sided Towhee	54	16	35	65	74	51	87	38	6	*	8	87	76	96	46	94	11	21	6	35	12
American Tree Sparrow	*	49	*	*	*	*	1	*	*	1	*	*	*	*	*	*	*	*	*	*	*
Chipping Sparrow	8	10	7	70	32	12	3	1	*	5	*	14	6	47	8	101	*	8	*	*	*
Field Sparrow	247	119	208	156	470	190	99	46	20	1	18	241	113	55	45	275	3	36	28	4	7
Vesper Sparrow	13	*	*	3	1	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*
Savannah Sparrow	126	8	36	212	183	47	*	38	*	*	5	45	6	21	42	10	*	*	6	*	*
LeConte's Sparrow	*	1	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Fox Sparrow	24	42	15	14	10	9	7	6	6	*	1	8	2	3	6	CW	1	*	1	1	2
Song Sparrow	358	154	126	401	213	132	123	327	16	5	17	444	244	377	389	463	39	168	142	111	82
Lincoln's Sparrow	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Swamp Sparrow	3	62	87	276	23	57	4	26	10	*	6	67	75	33	120	22	9	6	3	*	1
White-throated Sparrow	807	249	187	396	334	133	455	111	18	3	104	498	184	427	342	604	123	135	199	272	55
White-crowned Sparrow	105	9	50	13	38	39	3	23	*	*	7	12	9	4	2	17	31	4	18	87	*
Sparrow sp.	*	*	*	155	33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Dark-eyed Junco	130	174	136	294	254	75	77	133	20	46	11	76	49	138	18	36	6	16	82	50	104
Lapland Longspur	1	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Red-winged Blackbird	see text	94,825	11,021	409	649	412	104	765	15	1	120	6,592	3,800	69	2,045	235	30	40	*	*	12
Eastern Meadowlark	279	241	150	195	369	93	104	60	30	*	85	113	146	164	176	107	127	56	15	13	1

Species	Memp	Reel	Jack	Sav	BufR	Colu	Nash	Hick-Pr	Murf	Wils	High	Nick	Cooke	Chat	Hiwas	Knox	Gree	King	Eliz	Bris	Roan
Western Meadowlark	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Yellow-headed Blackbird	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*
Rusty Blackbird	89	73	5	38	*	*	*	*	35	*	10	416	100	25	2	35	*	*	*	CW	*
Brewer's Blackbird	*	*	*	CW	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Common Grackle	1,080	52,756	4,031	20,802	79	505	780	21	100	*	12,000	22,523	19,000	54	1,321	2,582	22	3	4	*	1
Brown-headed Cowbird	555	1321	106	310	59	372	57	425	25	*	70	10	500	10	304	5	2	1	*	CW	*
Blackbird sp.	*	*	*	12,290	260	*	*	*	*	*	*	*	53,000	*	*	*	*	*	*	*	*
Northern Oriole	*	*	*	*	*	*	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Purple Finch	1	*	*	4	8	*	*	*	*	*	*	2	1	2	*	1	*	*	*	1	*
House Finch	83	200	102	179	85	99	335	145	280	75	46	117	528	876	65	455	137	281	205	645	6
Pine Siskin	*	*	*	9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*
American Goldfinch	83	78	40	135	205	129	179	108	25	7	8	229	94	188	154	171	39	102	219	126	16
House Sparrow	148	165	101	24	355	35	9	89	250	*	17	40	64	94	13	34	22	49	63	11	20
Total Species	96	109	72	101	82	91	81	85	49	42	94	101	75	100	95	85	72	71	71	76	50

Table 1. 1995 Mid-winter Eagle Count - Tennessee (Jan. 3-17, 1995)

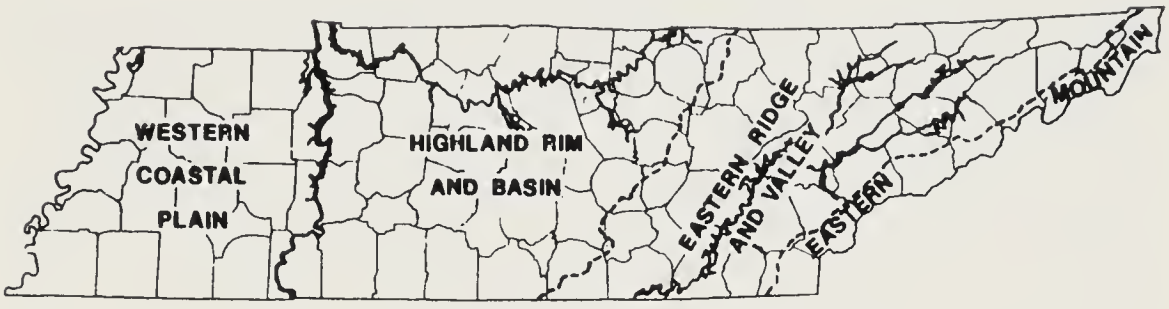
	Adults	Immatures	Total
Mississippi River Area			
Reelfoot Lake	112	76	188
Obion River	0	0	0
Fk Deer Basin	2	0	2
Hatchie NWR	1	0	1
Hatchie River (other)	0	0	0
KY Lake/TN River Area			
LBL - Tenn.	29	15	44
Tenn. NWR	25	42	67
Pickwick Lake	1	0	1
Beech River Basin	0	0	0
West Tenn. Bald Eagle TOTALS	**170**	**133**	**303**
Middle Tennessee			
Barkley Res.	0	0	0
Cross Creeks NWR	4	1	5
Cheatham Lake	2	2	4
Harpeth River	0	0	0
Old Hickory Lake	2	0	2
Normandy Lake	2	0	2
Duck River Basin (other)	0	0	0
Tims Ford Lake	1	0	1
Center Hill	2	0	2
Cordell Hull	4	0	4
Dale Hollow Lake	39	17	56
Middle Tennessee Bald Eagle TOTALS	**56**	**20**	**76**
East Tennessee Area			
Nickajack Lake	2	1	3
Chickamauga Lake	18	9	3
Watts Bar Lake	29	3	32
Hiwassee Basin	2	9	11
South Holston	3	2	5
Cherokee Lake	2	0	2
Watauga Lake	2	0	2
East Tennesee Bald Eagle TOTALS	**58**	**24**	**82**
STATEWIDE TOTALS	**284**	**177**	**461**

Hatacher, Bob and Bill Yambert. 1995. Tennessee mid-winter eagle count. Tennessee Wildlife Resources Agency. Nashville, Tennessee.

The Migrant, 66 (1): 19-26, 1995.

THE SEASON

RICHARD L. KNIGHT, Editor



FALL: 1 AUGUST - 30 NOVEMBER 1994

WESTERN COASTAL PLAIN REGION: Mild temperatures and moderate rainfall encouraged many observers to spend more time in the field. While the weather enhanced field observations, weather patterns may or may not have been a factor for the White-faced Ibis, a Roseate Spoonbill, a Surf Scoter, a Marbled Godwit, a record long visit from a Ruff, the short visit of a Common Ground-Dove, a Bell's Vireo in Dyer County, and brief observations of a Lawrence's Warbler and a Western Tanager. In the interest of space, sightings of common waterfowl, herons, egrets and shorebirds have been omitted.

Loon-Scoter: **Red-throated Loon:** 12 Nov (1) Big Sandy (MAG, JRW). **PACIFIC LOON:** 12 Nov (1) Big Sandy (MAG, JRW), second for state. **Horned Grebe:** 13/20 Nov (6 max) Lake/Obion Cos. (WGC); 12 Nov (100) Big Sandy (MAG). **Eared Grebe:** 12-19 Nov (1) Shelby Farms (MTOS) many photos. **American White Pelican:** 24 Sep-28 Nov (188) Dyer Co. (WGC), late west TN, 2 Oct-24 Nov (650 max) Is 13 (WGC). **ANHINGA:** 9 Sep (1) Ft. Pillow S P (DDP); 6 Nov-EOP (1 f) Rlft L., Obion Co. (WGC), late west TN. **Great Egret:** 25 Nov (1) TEC (RDH, MLG, DoM, VBR MGW). Herons and egrets continued to be observed in Lake and Dyer counties. The roost north of Cates continued to attract a large number of birds; **Little Blue Heron:** 14 Aug (2,000+), **Cattle Egret:** 14/26 Aug (2,600+), **Great Egret:** 27 Aug (3,500) and 500 Snowy Egret (WGC, MAG and others). **Double-crested Cormorant:** reported from all river counties. **Tricolored Heron:** 14 Aug (1 ad, 3 im) Is 9 (WGC). **Black-crowned Night-Heron:** 3 Aug (1 ad) Dyer Co. (WGC); 14 Aug (1 im) Phillipy (WGC). **WHITE-FACED IBIS:** 14 Aug (1 ad) Phillipy (WGC, Bob Odear, MAG, JRW). ***Plegadis sp.:*** 7-13 Oct (4 dark) Heloise (WGC); 27 Oct (1) TEC (MLG). **ROSEATE SPOONBILL:** 9 Sep (1 ad) Black Bayou (Rick Estridge, UT/TWRA Shorebird Study); 15/16 Sep (1) #9 Lake; 29 Sep (1) Heloise (WGC, MAG). **Greater Scaup:** 6 Nov (1 f) Shelby Farms (MGW, CHB, WRP); 12 Nov (12) Pace Point (MAG). **SURF SCOTER:** 22 Oct (2) Heloise (WGC).

Osprey-Moorhen: **Osprey:** 16/20 Aug (1) Shelby Farms (MLG); 20 Aug (1) Shelby Farms (MLG, CHB, DoM, VBR, MGW); 25 Aug (1) Is 13, 27 Aug (2) Airpark Inn, Rlft L S P, 5 Sep (1) Britton Ford (MAG); 21 Sep (1) Dyer Co.; 29 Sep (1) #9 Lake, KY; 1 Oct (1) TEC (MAG); 9 Oct (1) Dyer Co. (WGC). **Northern Harrier:** 4 Aug (1 m) Is 13 (WGC), early west TN; 26 Aug (1 im) Black Bayou (WGC). **Sharp-shinned Hawk:** 8 Oct (2) Big Hill Pond (MTOS); 17 Oct (1) Keely Bottoms (MAG); 10 Nov (1) Rlft L (WGC); 12 Nov (1) Big Sandy (MAG); 23 Nov (1) ne Memphis (MGW). **Cooper's**

Hawk: 8 Aug (1) TEC (MTOS); 19 Aug (1) Shelby Forest S P (DDP); 3 Sep (1) Gibson Co. (WAG); 10 Sep (1) Is 13 (MAG); 13 Sep (1) found shot in Gibson Co. (OKM), recovering at Memphis Zoo; 15 Sep (1) Is 9 (MAG); 29 Sep (1) Black Bayou (WGC); 2 Oct (1) sw Memphis (VBR, MGW); 4 Oct (1) Shelby Farms (GRP); 5 Oct (1) e Memphis (OKM); 8 Oct (1) Fayette Co. (MGW); 2/6 Nov (1) Shelby Farms (SNM, CHB, MGW); 12 Nov (1) Britton Ford (MAG); 13 Nov (1) Shelby Farms (MGW); 15 Nov (1) w Fayette Co. (MGW). **Merlin:** 29 Sep (1) Black Bayou (WGC). **Peregrine Falcon:** 9 Oct (1) Lake Co. (WGC); 18 Oct (1) Shelby Farms (MLG); 14 Nov (1) downtown Memphis (SNM). King Rail: 4 Aug (1 im) Burnt Wds (WGC). Sora: 3 Sep (1) TEC (MAG). **Common Moorhen:** 22 Aug (1 ad, 4 juv), 28 Aug (two families of 1 ad, 4 juv and 1 ad, 5 juv) & 5 Sep (1 ad) Long Point (WGC); 20 Sep (1 im) Walnut Log (WGC).

Plover-Phalarope: The shorebirds and observers were a daily occurence at The EARTH Complex (TEC). In the interest of space the observers are noted here: CHB, LCC, MAG, MLG, RDH, DoM, VBR, GRP, JBP, WRP, DLW, MGW. **Black-bellied Plover:** 18/20 Aug (1) Is 13 (WGC); 4 Sep/12 Nov (8 max) TEC; 28 Sep/21 Oct (4 max) Dyer Co. (WGC). **American Golden-Plover:** 27 Aug (2) Black Bayou (WGC); 20 Aug-25 Nov (7 max) TEC. **Snowy Plover:** 20 Aug (1) Is 13 (LVZ, JAZ). **Semipalmated Plover:** 21 Oct (1) Shelby Farms (MLG); 31 Oct (1) Heloise (WGC), both late. **Black-necked Stilt:** 23 Aug (9-12) back of chute mile 725, Shelby Co. (JPR); 25 Sep (15) TEC. **American Avocet:** 15 Aug (1) Mar Towhead river mile 876, Lake Co.; 20 Aug (1) Is 13; 21 Oct (71) river at Tiptonville, Lake Co.; 26 Oct/6 Nov (3) Heloise (all by WGC). Willet: 4 Aug (1) at 103 and Gr River Rd, Dyer Co. (WGC); 22/25 Aug (1) Is 13 (WGC). **Spotted Sandpiper:** 21 Oct (1) Shelby Farms (MLG) late. **Upland Sandpiper:** 9 Aug (1) at Hwy 103 and Gr River Rd (WGC). **MARBLED GODWIT:** 14/15 Aug (2) Phillipy (WGC); 14/15 Aug (2) island n of Cates (WGC, MAG, Bob Odear). Ruddy **Turnstone:** 6 Aug/4 Sep (2/1) TEC; 14 Aug (1) island n of Cates (WGC). **Sanderling:** 21 Aug/18 Sep (5 max) TEC; 25 Aug-20 Sep (5 max) Is 13 (WGC); 10 Sep (15) Is 13 (MAG); 8 Oct (1) Is 13 (WGC). **Western Sandpiper:** 8 Aug-26 Nov (6) TEC; 17 Aug (5) Shelby Farms (DDP); 18 Aug-15 Sep (4 max) Lake Co. (WGC); 20 Aug/23 Oct (5 max) Heloise (WGC). **White-rumped Sandpiper:** 2/18 Oct (1) Is 13 (WGC); 1 Nov (1) TEC. **Baird's Sandpiper:** 18 Aug-1 Nov (2) TEC; 21 Aug/31 Oct (4 max) Heloise (WGC); 29 Sep (1) #9 Lake, KY (WGC); 2 Oct/6 Nov (2 max) Is 13 (WGC); 27 Aug (2) Is 13 (MAG). Semipalmated Sandpiper: 4 Nov (6) Dyer Co. (WGC), very late. **Pectoral Sandpiper:** 1 Aug-25 Nov (3000+) TEC, late west TN; 14 Aug-6 Nov (372 max) Phillipy (WGC); 2/12 Oct (81 max) Heloise (WGC). **Dunlin:** 1 Oct-12 Nov (19 max) TEC; 1 Oct-4 Nov (6 max) Is 13 (WGC); 15 Oct-4 Nov (22 max) Heloise (WGC). **Stilt Sandpiper:** 6 Aug- 27 Oct (16 max) TEC; 4 Aug-1 Oct (39 max) Phillipy (WGC); 2/21 Oct (50 max) Is 13 (WGC); 13/18 Oct (20 max) Heloise (WGC). **Buff-breasted Sandpiper:** 14 Aug (1) island n of Cates (WGC); 20 Aug-5 Sep (2) Is 13 (WGC); 20 Aug-16 Sep (2) TEC. **RUFF:** 1 Oct-25 Nov (1) TEC (Bob Foehring, m. ob). **Short-billed Dowitcher:** 20 Aug/21 Oct (4) TEC; 14 Aug (1) Phillipy (WGC); 10 Sep (1) Is 13 (MAG). **Long-billed Dowitcher:** 14/15 Aug (2) Phillipy (WGC, Bob Odear, MLG); 21/23 Oct (1) TEC. *Dowitcher sp.:* 15 Aug-1 Nov (5) Lake Co. (WGC); 20 Aug-1 Nov (8 max) TEC. **Common Snipe:** 5 Aug (1) Shelby Farms (MLG), early Shelby Co. and West Tennessee. **Wilson's Phalarope:** 14 Aug/20 Sep (1) Phillipy (WGC); 21 Aug (2) Heloise (WGC, MAG); 20-28 Aug (1) TEC; 5 Sep (1) Is 13 (DLW). **Red-necked Phalarope:** 6/10 Aug (1) TEC.

Gull-Woodpecker: **Laughing Gull:** 14 Aug (1) island n. of Cates (WGC). **Franklin's Gull:** 14 Aug/5 Nov (2) island n of Cates (WGC). **Lesser Black-backed Gull:** 12 Nov (1 ad) Big Sandy (MAG, JRW). **Caspian Tern:** 15-28 Aug (7 max) Lake Co. (WGC, MAG); 23 Aug (1) river mile 862, Lake Co. (JPR). **Forster's Tern:** 21 Aug (1 ad feeding 1 im) Dyer Co. & 23/30 Oct (1) river at Tiptonville (WGC). **Black Tern:** 3 Aug (13) ls 21, Dyer Co. (WGC); 4 Aug (1) Shelby Farms (MLG); 22 Aug (6 max) Lake Co. (WGC); 22/23 Aug (flocks of 30 -40 on the river) Mississippi River from New Madrid to south of Memphis (JPR). **COMMON GROUND-DOVE:** 28 Aug (1) TEC (VBR). **Black-billed Cuckoo:** 27 Aug (1) Dyer Co. & 10 Sep (1) Is 13 (MAG). **Barn Owl:** 5 Aug (4 yg) Collierville, Shelby Co. (OKM); 11 Aug (1 ad) TEC; 12 Aug (1 yg) e Memphis; 14 Aug (1 dead) industrial park, Memphis; 14 Aug (family) Collierville, Shelby Co. (MGW); three yg banded and released in w Fayette Co. **Common Nighthawk:** 7 Aug (15) midtown, Memphis (LCC, MaH); 31 Aug (40) e Memphis; 3 Sep (20) midtown Memphis (VBR); 6 Sep (30) e Memphis (WRP); 6/9 Sep (16 max) e Memphis (BHW); 18 Sep (6) midtown Memphis (SNM); 22 Sep (16) e Memphis (MTOS); 15 Oct (4) e Memphis (SNM, NPM); a nightly count beginning 28 Aug thru 13 Oct (25 max) was made in midtown Memphis (Judy Dorsey). **Chimney Swift:** 7 Aug (1,000) midtown Memphis chimney (LCC, MaH); 28 Aug-13 Oct (25 max) observed daily in midtown Memphis (Judy Dorsey); 31 Aug (40) Memphis (RWP); 8 Sep (500) e Memphis (SNM, NPM). **Red-headed Woodpecker:** 13-22 Aug (18 max) Shelby Forest S P headquaters to nature center (DDP, DP).

Flycatcher-Bobolink: **Olive-sided Flycatcher:** 7 Aug (1) Shelby Forest S P (LVZ, JAZ) early Shelby Co.; 14 Aug (1) Decatur Co. (CHB); 22 Aug (1) Dyer Co. (MAG); 27 Aug (1) Lake Co. (WGC, MAG); 27 Aug (1) Dyer Co. (WGC); 9/10 Sep (1) Is 13 (WGC, GBB, WRP, RWP). **Willow Flycatcher:** 18 Sep (2) Keely Bottoms (MAG) responded to owl tape. **Least Flycatcher:** 22/25 Aug (1)/5 Sep (2) two locations, Shelby Forest S P (DDP, DP); 8 Sep (1) Ft Pillow S P (DDP); 18 Sep (1) Shelby Farms (RWP); 18 Sep (1) Keely Bottoms (MAG) last record was a response to owl tape. **Tree Swallow:** 29 Sep/ 20 Oct (1200+ max) ls 13 (WGC). **Purple Martin:** 14/29 Aug (250,000-850,000+) ls 9 (MAG), videotaped. **Fish Crow:** 9 Aug (30) Burnt Wds (WGC); 13 Aug (3) Shelby Forest S P (DDP, DP); 24 Aug (3) Hwy 104 E, Gibson Co. (WGC), first submitted record for Gibson Co.; 30 Aug-12 Sep (10 max) midtown Memphis (OKM). **BEWICK'S WREN:** 8 Sep (1) Ft Pillow S P (DDP). **House Wren:** 13 Aug (1) Shelby Forest S P (DDP, DP); 18 Sep (1) Shelby Farms (WRP, RWP); 17 Sep (2) Mustin Bottoms (MGW); 1 Oct (1) TEC (MAG); 21 Oct (1) e Memphis (SNM); 6 Nov (1) Shelby Farms (CHB, MGW). **Gray-cheeked Thrush:** 13 Nov (1) Memphis (Jo Levy), late TN date. Vireo and warbler migration was under early scrutiny this year. All the vireos except the Solitary were accounted for. A total of 24 warbler species were observed in good number at Shelby Forest S P & Ft Pillow S P. **BELL'S VIREO:** 22 Aug (1) Dyer Co. (*MAG), responded to owl tape. **Solitary Vireo:** 16 Nov (1) Herb Parsons Lake, Fayette Co. (VBR, HBD, SSL, JPM, BHW). **Philadelphia Vireo:** 3 Sep (1) Shelby Farms (CHB, BHW, ROW). **Blue-winged Warbler:** 13 Aug-15 Sep (11 max) Shelby Forest S P (DDP, DP); 13 Aug (1) Decatur Co. (CHB); 27 Aug (3) Shelby Farms (CHB, VBR, MGW); 8 Sep (2) Ft Pillow S P (DDP); 9 Oct (1) Tipton Co. (DDP), late w TN. **Golden-winged Warbler:** 8 Sep (7) Ft Pillow S P (DDP); 15 Sep (5) Shelby Forest S P (DDP). **"Lawrence's Warbler":** 18 Sep (1 m) Keely Bottoms (MAG). **Tennessee Warbler:** 13 Aug (5) Shelby Forest S P (DDP, DP) early Shelby Co. and w TN. **Chestnut-sided Warbler:** 13 Aug (1) Shelby Forest S P (DDP, DP), early w TN

and Shelby Co. record. **Cape May Warbler:** 4 Oct (1) Shelby Farms (VBR), late Shelby Co. **Black-throated Green Warbler:** 13 Aug-15 Sep (19 max) Shelby Forest S P (DDP, DP). **Swainson's Warbler:** 25 Aug (1) Shelby Forest S P (DDP DP). **Mourning Warbler:** 25 August (1) Shelby Forest S P (DDP, DP). **Pine Warbler:** 17 Aug (18) Shelby Farms (DDP, DP). **Canada Warbler:** 22/25 Aug (1/3) Shelby Forest S P (DDP, DP); 27 Aug (1) Shelby Farms (CHB, VBR, MGW). **Ovenbird:** 26 Aug (1) Shelby Forest S P (DDP). **Northern Waterthrush:** 6 Nov (1) Memphis (Price Bullock, fide CHB), late Shelby Co. and west TN. **Chipping Sparrow:** 12 Nov (125) Shelby Farms (MTOS), high number for Shelby Co. **Vesper Sparrow:** 4 Oct (3) Shelby Farms (GRP) early Shelby Co.; 21 Oct (1) Shelby Farms/TEC (MLG); 6/12 Nov (8 max) Shelby Farms (CHB, MGW, MTOS); 26 Nov (3) Whites Lake (MAG). **Grasshopper Sparrow:** 27 Aug (1) Black Bayou (MAG). **LeConte's Sparrow:** 26 Nov (1) Whites Lake (MAG). **Lincoln's Sparrow:** 6 Nov (2) Shelby Farms (CHB); 25 Nov (1) Whites Lake (MAG). **Song Sparrow:** 14 Aug-EOP (1) TEC (MTOS); 17 Aug (1) Shelby Farms (DDP, DP). **White-crowned Sparrow:** 4 Oct (12) Shelby Farms (GRP) early Shelby Co. **Lapland Longspur:** 25 Nov (1) TEC. **Smith's Longspur:** 22 Nov (1) Shelby Farms (MLG). **Bobolink:** 19 Sep (1) #9 Lake (WGC).

Locations: See page 68.

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HIGHLAND RIM & BASIN REGION: Weather in the area was very normal for this season with no unusual patterns; thus, migration was well spread over the entire count period. Several outstanding records were received. A first area record for Ross's Goose, well documented with photo; two separate records of the very rare Red Phalarope; and a well documented report of the seldom seen and threatened Henslow's Sparrow. From the volume of records received, there appeared to have been more observer hours spent in the field than usual.

Loon-Crane: **Common Loon:** 20 Nov (50) Center Hill L (SJS). Pied-billed Grebe: 2 Aug (4) Duck River (Andrea Dunston), ers. **Horned Grebe:** 5 Sep (1) Coffee Co (ELR), very early; 20 Nov (80+) Center Hill L (SJS), max. **Double-crested Cormorant:** 7 Sep (1) Metro Center, Nashville (fide TJW); 10 Nov (1) Radnor L (MLM); 29-30 Oct (500+) Duck River (TOS fide MAG, GAF). **American Bittern:** 28 Oct (1) Duck River (Marcia Davis, m.ob.). **Great Egret:** 9 Oct (24) Burgess Falls (Ann & Michael Sanders), max. **Cattle Egret:** 20 Aug (14) Montgomery Co (Jim Hayes). **Green Heron:** 27 Aug (14) Coffee Co (ELR), max. **Yellow-crowned Night-Heron:** Aug (2) Rk Is St P, Warren Co (Michael Sanders); 28 Aug (1) Burgess Falls (SJS). **Snow Goose:** 9 Nov (1 im blue) Cane Cr P (SJS). **ROSS'S GOOSE:** 12-19 Nov (1) Woods Res. (*DLD, Jim Peters, Jeff Wilson). **Oldsquaw:** 30 Oct (1) Woods Res. (SJS, JTS, EMC, Juanita Shettlesworth), early. **Osprey:** 19 Nov (1) Center Hill L (BHS), lrs. **Bald Eagle:** 27 Aug (1) Center Hill L (BHS); 6 Sep (1 ad) AEDC (DLD). **Cooper's Hawk:** 20 Nov (1) DeKalb Co (SJS). **Merlin:** 22 Oct (1) Jackson Co (SJS, JTS, EMC); 6 Nov (1) Ruth. Co (TJW). **Peregrine Falcon:** 24 Oct (1) downtown Nashville (Sabin Thompson). **Sandhill Crane:** 14 Nov (3) Warren Co (MMcW); 19 Nov (6) Putnam Co (SJS, BHS); 23 Nov (115) & 28 Nov (55) Putnam Co (BHS).

Plover-Hummingbird: **Black-bellied Plover:** 30 Oct (1) Woods Res. (SJS). **American Avocet:** 1 Oct (10) Warren Co (SNM, MMcW), first Co record. **Greater Yellowlegs:** 24 Oct (40) Warren Co (SNM). **Spotted Sandpiper:** 11 Nov (2) Center Hill L

(BHS, SJS), lrs. **Semipalmated Sandpiper:** 3-4 Oct (1) Burgess Falls (SJS), late. **Western Sandpiper:** 19 Aug (1) Cane Cr P (SJS, Tom Saya), first Co record. **Baird's Sandpiper:** 31 Aug (1) Gal Stm P (TJW). **Red Phalarope:** 1 Sep (1) Radnor L (Hazel Cassel, GAF, Jan Shaw, John Froeschauer, Jeanee Seals, Sharon Monroe); 20 Nov (1) Center Hill L (*SJS). **Caspian Tern:** 27-31 Aug (5-7) Gal Stm P (TJW). **Forster's Tern:** 31 Aug (1) Gal Stm P (TJW). **Black Tern:** 21 Aug (6) J. Percy Priest Res., Ruth. Co (TJW); 24 Aug (5) Coffee Co (ELR); 31 Aug (3) Gal Stm P (TJW); 24 Sep (1) Cane Cr P (SJS, JTS, EMC). **Barn Owl:** 27 Aug (1) Coffee Co (Ruth Luckado). **Common Nighthawk:** 4 Nov (6) Nashville (Richard W. Simmers); 14 Nov (4) Nashville (fide TJW). **Rufous Hummingbird:** 7-13 Nov (1 ad m) Maury Co (Ingrid Shapiro).

Flycatcher-Sparrow: **Traill's** and **Least Flycatchers:** 16 Aug (1 each banded) Grassmere Park, Nashville (Portia MacMillan, Ethel Kawamura, Jane Marzoni). **Tree Swallow:** 29-30 Oct (250+) Duck River (TOS fide MAG, GAF). **House Wren:** 30 Oct (1) Duck River (RLK). **Sedge Wren:** 19-24 Aug (1) Cane Cr P (SJS). **Marsh Wren:** 30 Oct (1) Duck River (JWC, LCM). **White-eyed Vireo:** 5 Nov (1) Shelby Bottom (GAF), late. **Blue-winged Warbler:** 24 Sep (1) Cane Cr P (SJS, JTS). **Tennessee Warbler:** 8 Aug (1) Nashville (fide TJW), ers; 30 Oct (1) Woods Res. (SJS, JTS, EMC, Juanita Shattlesworth), lrs. **Orange-Crowned Warbler:** 1 Oct (1) Radnor L (Magnus Persmark); 11 Oct (1 banded) Lewis Co (George Mayfield). **Cape May Warbler:** 21-24 Sep (1) Cane Cr P (SJS, JTS, EMC). **Black-throated Green Warbler:** 22 Oct (1) Cane Cr P (SJS, JTS, EMC), lrs. **Palm Warbler:** 30 Nov (6) AEDC (TJW), lrs. **Wilson's Warbler:** 5 Sep (1) Putnam Co (BHS, SJS). **Summer Tanager:** 5 Nov (1) Shelby Bottom (Jan Shaw), lrs. **Henslow's Sparrow:** 22 Oct (1) Warren Co (*SNM). **Fox Sparrow:** 4-13 Nov (1 singing) Radnor L (MLM); 5 Nov (1) Maury Co (George Mayfield).

Locations: See page 68.

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CUMBERLAND PLATEAU/RIDGE & VALLEY REGION: Mild temperatures prevailed this season. The first half of November was particularly warm. Frost was not recorded in the Johnson City area until 27 October, later than usual. Seasonal rainfall was near normal, but September was rather dry. Frontal systems grounded few large waves of migrants, with one exception (see Common Loon). Most wild food crops were very good.

Birding action was fairly steady, with few major movements or concentrations. In general, migrants seemed to trickle through in modest numbers. The mild conditions apparently encouraged a few birds to linger later than normal.

Eurasian Collared-Doves in Chattanooga were the most notable rarity. These probably were a part of this species' expansion from Florida.

Loon-Heron: **Common Loon:** 13 Oct (1) Boone L (RLK), ers; 27 Nov (472) Boone L (RLK), new high count for state. **Pied-billed Grebe:** 19 Aug (1) Bra Lev (BGM), ers. **Horned Grebe:** 27 Nov (22) Boone L (RLK), max. **Double-crested Cormorant:** 21 Aug/7-13 Sep (1) Nol Wat Sct (JoAnn Routledge/JBH); 9 Sep (1) Boone L (DEH); 24 Sep (20) Rkn Bot (RLK); 8 Oct (10) Patrick Henry L, Sullivan Co (Carol Lynn); 9 Oct (8) Phipps Bend, Hawkins Co (JWC, LCM); 28 Oct (1) Ktn Stm P (JWC, LCM, RLK); 19 Nov (1) Nick L (TLR). **Least Bittern:** 23 Aug (1) Chatt (RJH). **Great Egret:** 6 Aug-3 Sep (1) near Monterey, Putnam Co (SJS, BHS, Tom Saya); 9 Aug-16 Oct (1-2) Nol

Wat Sct (JBH et al.); 15 Aug (4) Bra Lev (BGM); 24 Aug-16 Sep (1-3) Aus Spr (RLK); 3-10 Sep (11) Hws R area (TLR, RJH); 4/24 Sep 27/57) Rkn Bot (TSM, CLS/RLK). **Little Blue Heron:** 9 Aug (1 im) Nol Wat Sct (JBH); 13 Aug (1) Bra Lev (BGM). **Tricolored Heron:** 5 Sep (1) Hws R area, Meigs Co portion (KHD, LHD). **Cattle Egret:** 7 Sep (1) Aus Spr (RLK). **Black-crowned Night-Heron:** Aug-8 Oct (1-7) Nol Wat Sct (JBH et al.); 13 Nov (19) Kpt (TSM, CLS).

Goose-Falcon: **Snow Goose:** 1 Oct (2 white) Boone L (Leonard Robertson); 28 Oct (9 white, 1 blue) Ktn Stm P (JWC, LCM, RLK); 12 Nov (1 white) Chatt (RJH). **Blue-winged Teal:** 21 Aug (150) Ktn Stm P (DRD, TSM, CLS, SMS), max. **Northern Shoveler:** 24 Sep (4) Rkn Bot (RLK), ers. **Gadwall:** 21 Aug (3) Ktn Stm P (DRD, TSM, CLS, SMS), ers. **Canvasback:** 19 Nov (6) Nick L (TLR). **Lesser Scaup:** 6 Oct (1) Middlebrook L, Bristol (JWC), ers. **Hooded Merganser:** 21 Aug (1) Ktn Stm P (DRD, TSM, CLS, SMS), ers. **Bald Eagle:** 3 Sep (1) Ktn Stm P (TLR, DRJ); 2 Oct (1) Rkn Bot (JWC, LCM); 15 Oct/27 Nov (1/2) Soddy Mtn (WGH); 19 Nov (2) Nick L (TLR, RJH). **Sharp-shinned Hawk:** 4 Sep-27 Nov (130, max 26 on 23 Oct) Soddy Mtn (WGH). **Cooper's Hawk:** 22 Aug-22 Nov (43) Soddy Mtn (WGH). **Broad-winged Hawk:** 4 Sep-4 Oct (778) Soddy Mtn (WGH). **Red-tailed Hawk:** 4-27 Nov (291, max 69 on 15 Nov) Soddy Mtn (WGH). **Golden Eagle:** 21 Oct/15 ov (1/1) Soddy Mtn (WGH). **Merlin:** 13 Oct (1) Tri-Cities Regional Airport, Sullivan Co (LCM). **Peregrine Falcon:** 10/19 Sep (1/1) Soddy Mtn (WGH); 4 Oct (1) Aus Spr (RLK); 28 Oct (1) Conklin, Wash Co (FJA).

Rail-Shorebirds: **Virginia Rail:** 9 Oct (1) Meadowview Marsh, Kpt (JWC, LCM). **Sora:** 7 Oct (1) Bristol (Jane Fleenor). **Common Moorhen:** 3 Sep (1) Hws R area (Mary Lynn Buttram, TLR). **American Coot:** 19 Nov (1000) Nick L (TLR), max. **American Golden-Plover:** 20 Sep-1 Oct (3) Lst (RLK). **Semipalmated Plover:** 21 Aug (12) Ktn Stm P (DRD, TSM, CLS, SMS), max. **Greater Yellowlegs:** 24 Sep (5) Rkn Bot (RLK), max. **Lesser Yellowlegs:** 21 Aug (6) Ktn Stm P (DRD, TSM, CLS, SMS), max. **Willet:** 21 Aug (1) Ktn Stm P (DRD, TSM, CLS, SMS). **Sanderling:** 21 Aug (5) Ktn Stm P (DRD, TSM, CLS, SMS); 24 Sep (1) Rkn Bot (RLK). **Semipalmated Sandpiper:** 21 Aug (70+) Ktn Stm P (DRD, TSM, CLS, SMS), max. **Western Sandpiper:** 21 Aug (2) Ktn Stm P (DRD, TSM, CLS, SMS); 10 Sep (2) Bradley Co (RJH); 2 Oct (2) Rkn Bot (JWC, LCM). **Least Sandpiper:** 21 Aug (30) Ktn Stm P (DRD, TSM, CLS, SMS), max. **Baird's Sandpiper:** 21 Aug (1) Ktn Stm P (DRD, TSM, CLS, SMS); 20 Sep (1) Lst (RLK). **Pectoral Sandpiper:** 24 Sep (66) Rkn Bot (RLK), max. **Stilt Sandpiper:** 2 Oct (1) Rkn Bot (JWC, LCM). **Short-billed Dowitcher:** 21 Aug (1) Ktn Stm P (DRD, TSM, CLS, SMS); 24 Sep (1) Rkn Bot (RLK).

Tern-Hummingbird: **Caspian Tern:** 3 Sep (1) Ktn Stm P (Mary Lynn Buttram, RJH, DRJ, TLR). **Common Tern:** 3 Sep (1) Ktn Stm P (RJH, TLR). **Forster's Tern:** 20 Aug (4) Boone L (Lloyd Jones); 21 Aug (45+) Ktn Stm P (DRD, TSM, CLS, SMS). **Black Tern:** 17 Aug (2) farm pond, Leesburg, Wash Co (JWB); 20 Aug (6) Boone L (Lloyd Jones); 21 Aug (60+) Ktn Stm P (DRD, TSM, CLS, SMS); 3/10 Sep (1) Hws R area (DRJ, TLR/RJH); 4 Sep (4) Ktn Stm P (DRD, TSM, CLS); 11 Sep (8) Boone L (TSM); one of the best showings in recent years. **EURASIAN COLLARED-DOVE:** 5 Nov into winter (3-5) Chatt (*Clyde Blum, m.ob.), pending action of TOS Bird Records Committee. **Common Nighthawk:** 1 Nov (1) Chatt (WGH), lrs. **Whip-poor-will:** 8 Oct (1) Greene Co (fide JBH), lrs. **Chimney Swift:** 20 Oct (3) Greene Co (JBH), lrs. **Ruby-throated Hummingbird:** 16 Oct (1) Jhn City (JWN), lrs.

Flycatcher-Vireo: **Olive-sided Flycatcher:** 1 Sep (1) Greeneville (ACL, DHM); 24 Sep (1) Jonesborough, Wash Co (JWB). **Eastern Wood-Pewee:** 21 Oct (1) Hmlt Co

(WGH), lrs. **Eastern Kingbird:** 4 Sep (45) Rkn Bot (TSM, CLS), max. **Tree Swallow:** 19 Nov (2) Nick L (RJH), lrs. **Northern Rough-winged Swallow:** 4 Oct (6) Aus Spr (RLK), lrs. **Common Raven:** 22 Oct (1) Boone Dame, Sullivan & Wash Cos (JWC, LCM). **Sedge Wren:** 9 Oct (1) Meadowview Marsh, Kpt (JWC, LCM). **Marsh Wren:** 21 Sep-9 Oct (1-2) Aus Spr (RLK); 13 Nov (1) Nick L (KAC). **Wood Thrush:** 27 Nov (1) Jhn City (JWN), new late date there by 2 weeks. **White-eyed Vireo:** 20 Nov (1) Amnicola Marsh, Chatt (DFV), lrs. **Solitary Vireo:** 5 Nov (1) Greeneville (ACL, DHM), lrs. **Yellow-throated Vireo:** 18 Oct (1) Warrior's Path S.P., Sullivan Co (Carol Lynn), lrs.

Warbler-Bobolink: **Blue-winged Warbler:** 20 Aug-25 Sep (9 reports) Hmlt, Knox, Wash Cos (m.ob.); 8 Oct (1) Greene Co (fide JBH), lrs. **Golden-winged Warbler:** 3-26 Sep (5 reports) Pickett, Hmlt, Knox, Wash Cos (m.ob.). **Orange-crowned Warbler:** 10 Sep-28 Oct (7 reports) Putnam, Hmlt, Knox, Wash Cos (m.ob.). **Cape May Warbler:** 24 Oct (1) Greeneville (JoAnn Routledge), lrs. **Yellow-rumped Warbler:** 26 Sep (1) Jhn City (FJA, JWN), ers. **Prairie Warbler:** 8 Oct (1) Greene Co (fide JBH), lrs. **Palm Warbler:** 18 Nov (1) Phipps Bend, Hawkins Co (FJA, JWN), lrs. **Kentucky Warbler:** 1 Oct (1) Greeneville (ACL, DHM), lrs. **Common Yellowthroat:** 18 Nov (1) Phipps Bend, Hawkins Co (FJA, JWN), lrs. **Wilson's Warbler:** 13 Sep (1 banded) Aus Spr (RLK). **Indigo Bunting:** 14/21 Sep (pair feeding fledged yg) Jhn City (JWN, FJA), late breeding. **Dickcissel:** 17 Sep (1) Jonesborough, Wash Co (JWB, Audrey Hoff). **Vesper Sparrow:** 4-25 Oct (1-2, 1 banded) Aus Spr (RLK); 28 Oct (1) Ktn Stm P (RLK, JWC, LCM); 11 Nov (4) Bra Lev (BGM). **Savannah Sparrow:** 27 Aug (1) Lst (JWB), ers. **Grasshopper Sparrow:** 1 Oct (1) Aus Spr (RLK); 28 Oct (1) Ktn Stm P (RLK, JWC, LCM), lrs. **Lincoln's Sparrow:** 4-19 Oct (4 reports) Sullivan & Wash Cos (RLK, JWN). **Bobolink:** 1 Oct (120) Lst (TSM), max.

Locations: See page 68.

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EASTERN MOUNTAIN REGION: Precipitation for August was about 1.5 inches above normal. It was considerably below normal for the rest of the period. Rainfall was 1.5 inches for September, 2.2 for October, and 1.3 for November. There was a strong waterfowl movement November 26 through 28 in northeast Tennessee. A Great White Heron was observed again on South Holston Lake. This is the third time in 5 years that this morph of the Great Blue Heron has been seen on this lake. Further study of this phenomenon is needed.

Loon-Duck: **Common Loon:** 22 Oct/27 Nov (4/142) S. Hol. L. (JWC, LCM, JL); 19/28 Nov (12/207) Watauga L. (RLK). **Horned Grebe:** 20 Nov (1) Watauga L. (TSM), ers; 24 Nov (2) S. Hol. L. (JWC et al.). **EARED GREBE:** 2/3 Oct (1) S. Hol. L. (LJ, JWC, LCM et al./ RLK), second area record. **Double-crested Cormorant:** 9 Sep thru EOP (2) S. Hol. L. (JWC et al.); 20 Nov (1) Ripshin L. (RLK); 28 Nov (10) Watauga L. (RLK). **GREAT WHITE HERON:** 25 Aug (1) S. Hol. L., VA portion (RPL, Vickie Lewis). **Great Egret:** 1/3 Oct (1) S. Hol. L. (JWC/RLK, RPL). **Black-crowned Night-Heron:** 18 Sep (5) Roan Cr. (TSM, Craig L. Stevens). **American Black Duck:** 3 Oct (1) S. Hol. L. (RLK), ers, few reports. **Northern Pintail:** 19 Nov (4) Watauga L. (RLK), only report. **Blue-winged Teal:** 2/22 Oct (3/2) S. Hol. L. (JWC). Northern Shoveler: 26 Nov (8) S. Hol. L. (JWC, JLS). **Redhead:** 26 Nov (3) S. Hol. L. (JWC, JLS); 28 Nov (8) Watauga L. (RLK). **Ring-necked Duck:** 3 Oct (2) S. Hol. L. (RLK), ers. **SURF SCOTER:** 26 Nov (1) S. Hol. L. (JWC, JLS). **BLACK SCOTER:** 28 Nov (2

f) Watauga L. (RLK). **Bufflehead:** 30 Oct (1) Wilbur L. (FJA), ers; 27 Nov (40) S. Hol. L. (JWC, LCM, JL). **Red-breasted Merganser:** 28 Nov (54) Watauga L. (RLK); 26/27 Nov (31/63) S. Hol. L. (JWC, LCM, JL). **Ruddy Duck:** 10 Oct (3) Watauga L. (LCM, LJJ, JL); 26 Nov (18) S. Hol. L. (JWC, JLS).

Vulture-Sapsucker: **Black Vulture:** 15 Sep (2) Doe Valley, Johnson Co. (RLK); 19 Nov (8) Butler, Carter Co. (RLK); 20 Nov (13) Hunter (TSM). **Turkey Vulture:** 22 Nov (73) Hunter (GOW). **Osprey:** 3 Aug (1) S. Hol. L. (LCM et al.). **Bald Eagle:** 6 Aug (1) S. Hol. L. (Jason Burton); 19 Nov (1 ad) Watauga L. (RLK). **Sharp-shinned Hawk:** 27 Nov (1 im, b) Holston V. (RPL); 9 other reports. **Cooper's Hawk:** 8 reports of single birds. **Broad-winged Hawk:** 20 Sep (133) Holston Mountain fire tower, Carter Co. (RLK); 11 Oct (1) Limestone Cove, Unicoi Co. (GOW), lrs. **Merlin:** 19 Sep (1) Roan Mt. (RLK); 1 Nov (1) Hampton (TSM). **Peregrine Falcon:** 20 Sep (1) Holston Mountain fire tower (RLK). **Wild Turkey:** 22 Oct (3) Holston V. (Phillip Lewis, Amanda Lewis). **Northern Bobwhite:** 11 Sep (4) Big Bald Mt. (LCM et al.). **American Coot:** 10 Oct (45) Watauga L. (LCM); 11 Nov (105) S. Hol. L. (JWC, LCM). **Bonaparte's Gull:** 24/27 Nov (4/10) S. Hol. L. (JWC, LCM et al.). **LAUGHING GULL:** 1 Oct (1) Watauga L. (FJA et al.); 20 Nov (1) Watauga L. (TSM). **Common Tern:** 9 Sep (7) S. Hol. L. (JWC et al.). **Yellow-bellied Sapsucker:** 10 Sep (1) Big Bald Mt. (RM), ers.

Raven-Sparrow: **Common Raven:** 3 Aug (2) Hunter (GOW); 23 Sep (2) Holston V. (RPL); 24 Sep (1) Shady V. (FJA); 19 Nov (1) Roan Cr. (RLK); 20 Nov (1) Hunter (TSM); usual numbers on Roan, Unaka, Big Bald, and Holston Mountains. **Red-breasted Nuthatch:** 11 Sep (1) Big Bald Mt. (RM); small numbers on Roan and Unaka Mt. **Gray-cheeked Thrush:** 5 Sep (1) Big Bald Mt. (GRM et al.). **American Pipit:** 19 Sep (1) Round Bald, Roan Mt. (RLK). **Loggerhead Shrike:** 13 Oct (1) Hampton, Carter Co. (TSM). **Philadelphia Vireo:** 19 Sep (1) Roan Mt. S. P. (RLK). **Tennessee Warbler:** 26 Aug (1) Unaka Mt. (RM), ers. **Cape May Warbler:** 1 Sep (1) Big Bald Mt. (RM), ers. **Blackburnian Warbler:** 29 Aug (2) Roan Cr. (TSM, Craig L. Stevens), ers. **Blackpoll Warbler:** 19 Sep (1 b) Big Bald Mt. (GRM, RM). **Kentucky Warbler:** 1 Oct (1) Ripshin L. (FJA et al.), lrs. Wilson's Warbler: 19 Sep (1) Roan Mt. S. P. (RLK). **Rose-breasted Grosbeak:** 23 Sep (80) Roan Mt. (RLK), max. **Vesper Sparrow:** 19 Sep (3) Round Bald, Roan Mt. (RLK); 1 Oct (3) Hunter (GOW, CFW, H. P. Langridge). **Grasshopper Sparrow:** 6 Aug (2) Shady V. (JWC, JLS, LCM). **Song Sparrow:** 9-10 Sep (ad. with recently fledged yg) Hampton Creek, Roan Mt. (FJA, Jerry Nagel), late nesting. **Lincoln's Sparrow:** 23 Sep (1) Shady V. (RLK).

Locations: See page 68.

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OBSERVERS: See page 69.

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NOTICE TO RESEARCHERS AND LIBRARIES

Volume 68, Number 1, has preceded this issue. Volume 66, Numbers 1-4, is printed in this single issue, with Volume 67 to follow. Several references in this issue include dates later than the cover date of 1995. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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COMMENTS ON BARRED OWL SUBSPECIES IN TENNESSEE

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Of the three subspecies of Barred Owl (*Strix varia*) in North America, two occur in Tennessee (A.O.U. 1957). The Florida subspecies (*S.v. georgica*) ranges across the deep south from east Texas to coastal North Carolina, as well as central Arkansas and west Tennessee. Only Shelby, Fayette, Hardeman, Tipton, and Haywood counties in southwest Tennessee seem to be included in the range of this subspecies (Karalus and Eckert 1973), although this list may be incomplete. The northern subspecies (*S.v. varia*) is much more widespread, occurring from Oklahoma, northern Arkansas, Tennessee, northern Georgia, and Virginia northward through the northern and eastern U.S. and across southern Canada. It seems to occur in Lake, Obion, and Weakley counties of northwest Tennessee (*op. cit.*), as well as most of middle and east Tennessee.

As coordinator of the Raptor Rehabilitation Program at the Memphis Zoo and Aquarium, I see an average of about 30 injured or orphaned Barred Owls each year; but since 1993, only three *S.v. varia* have been brought in to the RRP. One was from Reelfoot Lake State Park in Lake County, but the other two were found further south in Tipton and Shelby counties. The Shelby County bird was found in late November.

I have read about the differences in appearance of these two subspecies, but had little chance to study them until I recently viewed a large collection of skins at the Field Museum of Natural History in Chicago. There were well over 50 skins of each subspecies available. It would seem that *georgica* is a little darker than *varia*. However, the best way to separate the two is by the feathering of the toes. On *varia* the feathering goes almost to the base of the talons, while the toes of *georgica* are almost totally naked (Figure 1). This difference would be difficult to see in the field except at close range in good light. The collection of *varia* at the Field Museum contained four birds taken in the Mid-South area, including an individual from Lake County, Tennessee. The others were from Arkansas (two) and Georgia during the winter. It may be that, while Barred Owls are usually quite sedentary, there is some migration during the winter, particularly among northern birds. Clearly the subspecific distribution of this owl in Tennessee needs further study.

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Karalus, K.E. and A.W. Eckert. 1973. *The Owls of North America*. Weathervane Books, New York.

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Figure 1. Extent of feathering on the toes of two Barred Owl subspecies: the northern *S.v. varia* (left) and the southern *S.v. georgica* (right).

The Migrant, 66 (2): 30, 1995.

RECENT CHANGES IN TAXONOMY

The Fortieth Supplement to the A.O.U. Checklist (Auk 112:819-830, 1995) reports the most recent changes in taxonomy and nomenclature adopted for North American birds. Four splits and two minor name changes affect Tennessee ornithology. These changes will be incorporated into The Migrant beginning with this issue.

The modifier "American" is dropped from Swallow-tailed Kite, as confusion with an African species has been averted.

The modifier "Common" is dropped from Black-headed Gull in order to follow the British usage.

Bicknell's Thrush (Catharus bicknelli) is split from Gray-cheeked Thrush (*C. minimus*) based on differences in "morphology, vocalizations, habitat preferences, and migration patterns" (p. 824). Gray-cheeked Thrush remains as the form found as an uncommon migrant throughout the state. Bicknell's Thrush has been reported in Tennessee (Migrant 16:29, 1945 and 32:10, 1961), but its status is unclear.

Rufous-sided Towhee is split into Eastern Towhee (*Pipilo erythrophthalmus*), the widespread resident in the state, and Spotted Towhee (*P. maculatus*), a rare visitor from the West. Differences in "vocalization, dorsal plumage pattern, and nature and degree of sexual dimorphism" (p. 825) were the basis for this change.

Sharp-tailed Sparrow is split into Nelson's Sharp-tailed Sparrow (*Ammodramus nelsoni*) and Saltmarsh Sharp-tailed Sparrow (*A. caudacutus*) based on differences in "song, morphology, and habitat" (p. 826). Nelson's is the form which breeds in the interior of the continent and occurs as a rare migrant through Tennessee, whereas the Saltmarsh form apparently is restricted to the coast.

Northern Oriole is split into Baltimore Oriole (*Icterus galbula*), occurring widely in Tennessee, and Bullock's Oriole (*I. bullockii*), a rare visitor from the West. Differences in plumage, body size, vocalizations, molt schedule, etc. led to this change. The zone of hybridization of these two forms in the Great Plains, basis for their previous lumping, appears stable.

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The Migrant, 66 (2): 31-36, 1995.

1995 SPRING FIELD DAYS

Susan N. McWhirter

The 1995 Spring Field Days is the 50th count as published in this format. Ten counts were held across the state with a total of 213 different species observed. Among notable species was the Northern Saw-whet Owl at a nest box seen on Roan Mountain. The counts are compiled from west to east; CW indicates a species observed three days prior to or after the specific count day(s).

MEMPHIS: 30 April; 0730 -1800; clear to overcast; temp. 40-60°F; 28 observers in 5 parties; 128 species. The Brown Thrashers were one adult and three young. Bob Browne, Carolyn Bullock, Ian Carson, Shirley Carson, Lula Coffey, Bob Cooper, Murray Gardler, Kate Gooch, Beverly Griffin, Van Harris, Martha Heineman, Bob Ilardi, Theresa Irion, Pat Keiran, Charles McCrary, Mac McWhirter, Susan McWhirter, Gerald Papachristou, George Payne, Jeanne Payne, Dick Preston, Barbara Priddy, Forrest Priddy, Virginia Reynolds, Richard Spore, Martha Waldron (compiler - 1626 Yorkshire Drive, Memphis 38119), Dick Whittington, Linda Zempel.

MONTGOMERY COUNTY: 6 & 7 May; sunny to partly cloudy; temp. 50-80° F; wind, E to S, 5-10 mph; 21 observers in 10 parties, plus 3 at feeders. Joe D. Allen, Amy Atkins, Randall Barnes, Suva Bastin, Charles Emery, Taylor Emery, Mike Filson, Elaine Foust, Debbie Gillis, Steve Hamilton, Annie Heilman, Nancy Hughes, David Irvine, Mike Lee, Thurston Lee, Chad Lockard, W.G. Lyle, William D. Milliken, Gloria P. Milliken (compiler-861 Vaughn Rd., Clarksville 37043), Evette Strickland, John Strickland, Patty Stringer, Barbara Wilbur, Stanley York.

COLUMBIA: 28 & 29 April; clear to partly cloudy; temp. 50-75°F; 15 observers; 146 species. Earl Drake, Marie Drake, William Fuqua, Phyllis Herrmann, William Jernigan, Allyn Lay, Anne Lochridge, Bedford Lochridge, Henry Lyles, Mary Lyles, George Mayfield (compiler-999 Sunnyside Dr., Columbia 38401), Cleo Mayfield, Wendell Robinson, Ingrid Shapiro.

NASHVILLE: 13 & 14 May; 0630-1900 both days; cloudy with rain and severe thunderstorms in some areas; temp. 65-75°F; wind 15-20 mph; 99.5 total party hours (70 by foot, 29.5 by car); 447 total party miles (25 by foot, 422 by car); 34 observers in 11 parties; 162 species; 11,092 individuals. Jan Alexander, Sue Ansley, Michael Bierly, Jean Buchanan, Hazel Cassel, Phillip Casteel (compiler-2722 Bobby Ave., Nashville 37216), Richard Connors, Jerry Drewry, Gilbert Foster, Bill Franks, Boyd Goss, Barbara Harris, Bob Hatcher, Ed Hearn, Susan Hollyday, Linda Kelly, Ginny Lundell, Portia MacMillan, Joe Laughlin, Dianne McLusky, Jim Nance, Elizabeth O'Connor, Kim Phillips, Dick Porter, Mary Porter, Jan Shaw, Chris Sloan, Ann Tarbell, Sabin Thompson, Bob Vankirk, Rita Venable, John Walton, Mary Zimmerman.

MURFREESBORO: 29 & 30 April; weather unsettled with scattered showers; 50-70°F; 53 total party hours, plus 11 at feeders; 232 total party miles (17 by foot, 225 by car); 14 observers in 9 parties; 111 species; 2588 individuals. Details submitted for Scissor-tailed Flycatcher (SD); no information submitted for Black-chinned Hummingbirds. Bertha Chrietzberg, Jim Chrietzberg, Scott Degenhordt, Edith Haynes, Anna Hettish, Bob Heyyish, Richard Hunter, Wilma Hunter (compiler-3659 Wilson-Onerall Rd., Murfreesboro 37130), David McCarroll, George Neal, Ernie Smith, Francis Smith, Ferrell Wilson, Terry Witt.

MANCHESTER: 29 April; 0400-2000; clear to partly cloudy; 50-79°F; 43 total party

hours (13 on foot, 30 by car) plus 8 at feeders and 1 owling; 435 total party miles (19 on foot, 426 by car) plus 9 owling; 15 observers in 10 parties, plus 5 at feeders; 125 species; 2784 individuals. Tom Burleson, Sr., Don Davidson (compiler-1703 2nd Ave., Manchester 37355), Glen Estep, Frank Hernandez, Marguerite Hernandez, Ruth Luckado, Jose Martinez, Nicky Medley, Phil Medley, Chloe Peebles, Howell Peebles, Erma Rogers, Mattie Shockley, Jean Sullivan, Sue Wakeman, Linda Ward, Ann Wells, Judy Worthington, Grady York, Wilma York.

PUTNAM COUNTY: 13 May; 1400-1945; overcast with rain and hail in AM; 50-75°F; wind gusty, 0-20 mph; 71 total party hours plus 2.5 owling and 9.5 at feeders; 640 total party miles plus 48 owling; 8 observers in 6 parties plus 1 feeder watcher; 125 species. Daniel L. Combs, Graham S. Kash, John Long, Helen Redding, Joanne T. Shaefer, Richard W. Simmers, Jr., Barbara H. Stedman,Stephen J. Stedman (compiler-2675 Lakeland Dr., Cookeville 38506); Shane Schaefer at feeder.

KNOXVILLE: 30 April; fog, cloudy with light rain in AM, clear PM; 57-72°F; 103 total party hours, plus 2.5 hours owling; 8 miles by boat; 26 observers in 15 parties; 150 species; 8627 individuals. A comparison of this count with records of spring count compilations by J.B. and Frances Owen for 1953-1982 showed that marsh birds seem to be benefitting from the creation of many small wetlands and runoff ponds around commercial developments, as well as the attention given to already existing wetlands. Many of these species were seen in the highest numbers for years. There was some increase in numbers of woodland and edge/open habitat species, but others continue to show a decline in numbers (White-breasted Nuthatch, Black-throated Green Warbler, Swainson's Thrush) with Gray-cheeked Thrush not recorded at all. Details submitted for Laughing Gull (SH, MR). Jane Beintema, Frank Bills, Sharon Bostick, James Brooks, Betty Reid Campbell, Jim Campbell, Howard Chitwood, Marcia Davis, Jerry Hadder, Paul Hartigan, Audrey Hoff (compiler-4523 McCloud Rd., Knoxville 37938), Ron Hoff, Susan Hoyle, Joel Keeler, Tony Koella, Chuck Nicholson, Holly Overton, Paul Pardue, Truett Patterson, Bud Perry, Martha Rudolph, Boyd Sharp, Bill Sullivan, Allen Trently, David Trently, Bob Willard.

GREENE COUNTY: 22 April, 0600-2030; partly cloudy; 18 observers in 9 parties, plus 1 at feeder; 56 total party hours (21.5 on foot, 31.5 by car, 3 by boat) plus 8 at feeder; 243.5 total party miles (16.5 by foot, 224 by car, 3 by boat); 109 total species; 5570 individuals. Mark Britton, Phine Britton, Cynthia Cragin, Herb Cragin, King Gaut, Henriettta Holt, Jim Holt (compiler-311 Colonial Cl., Greeneville 37745), Sue Lewis, Alice Loftin, Don Miller, Richard Nevius, Willie Ruth Nevius, Linda Northrop, Roy Northrop, Jo Anne Routledge, Larry Routledge, Helen Spees, Virginia Williams.

ELIZABETHTON: 29 April; 0400-2145; clear; temp. 25-77°F; became windy in mountains in late afternoon; 26 observers on 9 parties; 100 party hours plus 10 nocturnal hours. The White Pelican has been present in the area since early February; the Northern Saw-whet Owl was seen at a nest box on Roan Mountain. Bobwhite continue to decline in this region. Cathi Alsop, Fred Alsop, Cat Bireley, Wallace Coffey, Joy Crass, Martha Dillenbeck, Chris Gardenhour, Beth Hogan, Danny Huffine, Teresa Hutson-Feliu, Rick Knight (compiler-804 N. Hills Dr., Johnson City 37604), Rad Mayfield, Perry McDorman, Stephanie McDorman, Joe McGiuness, Tom McNeil, Charles Moore, Steve Moser, Scotty Myers, Jerry Nagel, Sally Nagel, Cory Paulson, Mark Silvia, Craig Stevens, Gary Wallace, Frank Ward.

1995 SPRING FIELD DAYS

Species	Memp	Mont	Colu	Nash	Murf	Manch	Putn	Knox	Greene	Eliz
Common Loon	*	*	3	3	*	8	*	*	*	3
Pied-billed Grebe	*	*	7	1	1	3	*	2	*	1
White Pelican	*	*	*	*	*	*	*	*	*	1
Double-crested Cormorant	1	1	21	85	14	22	*	96	1	10
American Bittern	*	*	1	*	*	*	*	*	*	*
Great Blue Heron	42	11	2	26	9	27	10	101	18	4
Great Egret	6	CW	2	2	*	*	*	*	*	*
Little Blue Heron	5	*	*	*	*	*	*	*	*	*
Cattle Egret	4	*	*	9	*	*	*	*	*	*
Green Heron	1	6	4	14	3	1	7	12	2	6
Black-crowned Night-Heron	*	*	1	90	1	*	*	10	*	*
Yellow-crowned Night-Heron	1	*	*	3	*	*	*	*	*	*
Snow Goose	*	*	*	*	*	*	*	*	3	*
Canada Goose	21	23	229	122	30	33	57	192	95	148
Wood Duck	47	14	52	44	30	7	8	29	59	96
Mallard	12	*	6	101	3	17	*	64	28	175
Blue-winged Teal	11	*	27	17	*	11	*	1	16	20
Northern Shoveler	*	2	*	*	*	*	*	*	*	*
American Wigeon	*	*	*	*	*	*	*	*	*	1
Ring-necked Duck	*	*	*	*	*	*	*	*	*	1
Lesser Scaup	*	*	*	1	*	1	*	*	*	*
Hooded Merganser	*	*	1	*	*	*	*	1	*	*
Red-breasted Merganser	*	*	1	2	*	*	*	1	*	7
Black Vulture	2	42	19	127	16	31	2	7	30	3
Turkey Vulture	3	81	56	124	35	35	22	16	104	92
Osprey	*	1	2	2	*	1	1	10	2	6
Mississippi Kite	1	*	*	*	*	*	*	*	*	*
Bald Eagle	*	*	*	2	*	*	*	*	*	*
Northern Harrier	*	*	1	*	*	*	*	*	3	2
Sharp-shinned Hawk	1	*	1	3	1	*	3	1	1	2
Cooper's Hawk	*	1	1	3	1	*	2	3	1	2
Red-shouldered Hawk	3	3	4	7	*	1	3	1	*	*
Broad-winged Hawk	*	1	2	6	*	1	4	2	*	7
Red-tailed Hawk	4	21	14	28	14	9	4	12	17	12
American Kestrel	1	7	18	22	13	8	7	5	13	9
Ruffed Grouse	*	*	*	*	*	*	2	2	1	7
Wild Turkey	7	4	5	7	*	1	1	*	8	3
Northern Bobwhite	6	52	30	43	10	15	23	27	29	5
Virginia Rail	*	*	1	*	*	*	*	*	*	*
Sora	*	CW	7	*	*	*	*	1	*	*
American Coot	*	1	15	12	*	1	*	3	*	7
Semipalmated Plover	4	2	*	1	*	1	*	1	*	*
Killdeer	25	29	73	39	30	39	25	71	78	71
Black-necked Stilt	7	*	*	*	*	*	*	*	*	*
Greater Yellowlegs	*	2	4	7	2	3	*	1	*	1
Lesser Yellowlegs	1	CW	54	7	10	7	*	41	15	2
Solitary Sandpiper	21	1	6	4	10	15	*	35	22	24
Spotted Sandpiper	2	1	6	12	6	4	1	16	4	33
Upland Sandpiper	*	1	*	*	*	*	*	*	*	*
Ruddy Turnstone	*	*	*	1	*	*	*	*	*	*
Sanderling	*	*	*	4	*	*	*	*	*	*
Semipalmated Sandpiper	13	*	*	16	*	5	*	*	*	*
Western Sandpiper	*	*	*	8	*	*	*	2	*	*

Species	Memp	Mont	Colu	Nash	Murf	Manch	Putn	Knox	Greene	Eliz
Least Sandpiper	160	10	14	58	*	10	*	34	1	5
White-rumped Sandpiper	*	*	*	8	*	*	*	*	*	*
Pectoral Sandpiper	*	4	2	2	*	11	*	6	*	*
Dunlin	*	*	*	151	*	*	*	*	*	*
Stilt Sandpiper	*	*	*	2	*	*	*	*	*	*
Short-billed Dowitcher	3	*	*	1	*	*	*	*	*	*
Long-billed Dowitcher	11	*	*	*	*	*	*	*	*	*
Common Snipe	*	CW	*	*	*	*	*	*	*	*
American Woodcock	*	*	1	1	*	*	2	2	*	*
Wilson's Phalarope	*	CW	*	*	*	*	*	*	*	*
Laughing Gull	*	*	*	*	*	*	*	1	*	*
Ring-billed Gull	*	*	*	15	5	*	*	6	*	77
Caspian Tern	*	*	*	23	*	*	*	*	*	*
Common Tern	*	*	*	139	*	*	*	*	*	*
Forster's Tern	*	*	*	112	1	*	*	8	*	1
Black Tern	*	*	*	60	*	*	*	*	*	*
Rock Dove	71	33	50	105	30	27	41	121	41	142
Mourning Dove	30	211	104	204	80	84	215	420	272	218
Black-billed Cuckoo	*	2	*	*	*	*	1	*	*	*
Yellow-billed Cuckoo	*	10	3	23	4	1	7	5	*	1
Common Barn Owl	*	*	*	*	2	*	*	*	1	1
Eastern Screech Owl	*	2	13	2	1	1	1	6	1	5
Great Horned Owl	*	2	3	3	1	4	1	2	1	3
Barred Owl	*	8	11	3	*	2	6	1	*	2
N. Saw-whet Owl	*	*	*	*	*	*	*	*	*	1
Common Nighthawk	*	7	13	2	*	*	7	2	*	4
Chuck-will's-widow	*	2	11	4	*	6	5	21	*	4
Whip-poor-will	*	*	5	5	*	26	4	*	1	4
Chimney Swift	35	91	71	242	300	34	110	312	123	298
Ruby-throated Hummingbird	15	19	5	10	2	11	7	8	10	9
Black-chinned Hummingbird	*	*	*	*	2	*	*	*	*	*
Belted Kingfisher	2	13	11	23	2	6	6	17	7	16
Red-headed Woodpecker	32	25	12	4	6	12	2	*	1	3
Red-bellied Woodpecker	67	62	45	62	14	21	25	69	30	37
Yellow-bellied Sapsucker	*	*	*	7	*	1	*	*	2	*
Downy Woodpecker	34	31	35	33	8	15	22	23	25	35
Hairy Woodpecker	3	5	5	5	3	*	13	5	2	11
Northern Flicker	4	20	1	25	5	13	19	39	35	38
Pileated Woodpecker	13	15	21	20	*	11	21	18	12	38
Olive-sided Flycatcher	*	*	*	2	*	*	*	*	*	*
Eastern Wood-Pewee	8	31	9	58	6	13	57	1	1	2
Acadian Flycatcher	12	10	4	24	1	3	45	3	*	1
Willow Flycatcher	*	*	*	2	*	*	*	*	*	*
Least Flycatcher	2	1	*	2	*	*	1	*	*	2
Eastern Phoebe	11	51	77	40	4	23	25	28	36	77
Great Crested Flycatcher	35	36	20	43	6	11	30	21	12	19
Eastern Kingbird	19	65	115	146	37	31	54	47	47	38
Scissor-tailed Flycatcher	*	*	*	*	1	*	*	*	*	*
Horned Lark	3	2	*	*	*	5	3	*	*	*
Purple Martin	62	74	19	77	40	42	49	97	37	101
Tree Swallow	3	*	31	6	2	11	6	27	16	43
N. Rough-winged Swallow	8	21	267	357	10	18	40	59	17	198
Bank Swallow	*	*	*	28	6	9	1	6	*	*
Cliff Swallow	*	176	2	1419	*	4	3	2	*	48
Barn Swallow	74	78	36	267	50	65	123	241	182	264

Species	Memp	Mont	Colu	Nash	Murf	Manch	Putn	Knox	Greene	Eliz
Blue Jay	48	145	99	132	60	97	82	189	170	168
American Crow	18	101	86	134	150	56	94	228	197	245
Fish Crow	6	*	*	*	*	*	*	*	*	*
Common Raven	*	*	*	*	*	*	*	*	*	11
Carolina Chickadee	44	92	58	154	40	34	69	131	65	126
Tufted Titmouse	68	109	101	100	26	42	42	127	56	100
Red-breasted Nuthatch	*	*	*	*	*	*	*	1	*	11
White-breasted Nuthatch	14	32	13	29	*	8	10	2	12	22
Brown Creeper	1	*	*	*	*	*	*	*	*	*
Carolina Wren	79	97	58	89	14	37	79	154	72	112
Bewick's Wren	*	*	2	*	4	*	*	*	*	*
House Wren	*	30	9	2	4	*	6	7	21	45
Winter Wren	*	1	*	*	*	*	*	*	*	14
Sedge Wren	*	*	1	*	*	*	*	1	*	*
Marsh Wren	*	*	1	*	*	*	*	*	*	*
Golden-crowned Kinglet	*	*	*	*	*	*	*	*	*	10
Ruby-crowned Kinglet	1	1	4	*	4	1	*	31	3	14
Blue-gray Gnatcatcher	101	104	141	107	5	32	77	114	40	88
Eastern Bluebird	13	177	194	192	70	128	127	84	117	101
Veery	2	5	*	3	*	*	4	5	*	6
Gray-cheeked Thrush	6	*	*	5	*	*	*	*	*	*
Swainson's Thrush	64	10	2	28	1	*	3	11	*	*
Hermit Thrush	*	*	1	*	*	*	*	*	*	*
Wood Thrush	38	29	29	35	6	8	98	98	6	65
American Robin	16	442	340	391	90	184	405	442	361	472
Gray Catbird	5	15	11	5	16	8	41	20	2	20
Northern Mockingbird	12	147	62	115	60	75	81	128	104	82
Brown Thrasher	4	62	39	68	25	29	43	63	40	36
American Pipit	*	2	*	*	*	2	*	1	*	*
Cedar Waxwing	29	74	20	183	10	2	72	109	20	34
Loggerhead Shrike	*	9	8	7	3	*	1	7	2	4
European Starling	96	468	285	538	100	311	469	984	797	754
White-eyed Vireo	50	40	137	35	8	8	80	18	4	11
Solitary Vireo	*	*	*	2	*	*	8	5	3	88
Yellow-throated Vireo	4	10	5	4	1	1	16	6	3	4
Warbling Vireo	*	6	4	13	*	*	*	*	*	1
Philadelphia Vireo	*	1	*	3	*	*	*	*	*	*
Red-eyed Vireo	35	34	36	43	10	16	256	116	4	171
Blue-winged Warbler	*	3	5	13	1	3	29	1	*	2
Golden-winged Warbler	1	3	*	*	*	*	4	*	*	2
Tennessee Warbler	129	68	12	24	1	9	24	4	*	2
Orange-crowned Warbler	*	1	*	*	*	*	*	1	*	*
Nashville Warbler	4	2	*	*	1	*	2	3	*	*
Northern Parula	71	16	7	7	1	6	34	3	1	47
Yellow Warbler	*	16	21	35	14	*	36	11	2	43
Chestnut-sided Warbler	9	*	1	4	12	*	3	5	*	63
Magnolia Warbler	*	1	1	9	*	*	5	2	*	3
Cape May Warbler	*	*	5	2	4	2	1	14	*	2
Black-throated Blue Warbler	*	*	*	*	*	*	*	1	1	123
Yellow-rumped Warbler	100	28	26	3	50	34	*	182	78	97
Black-throated Green Warbler	8	2	*	12	7	3	3	9	1	128
Blackburnian Warbler	2	1	*	3	*	*	1	4	*	8
Yellow-throated Warbler	4	10	10	11	*	1	26	1	1	18
Pine Warbler	3	4	5	7	*	6	16	4	5	6
Prairie Warbler	*	26	7	32	1	8	78	4	*	2

Species	Memp	Mont	Colu	Nash	Murf	Manch	Putn	Knox	Greene	Eliz
Palm Warbler	20	19	54	2	9	5	*	36	2	2
Bay-breasted Warbler	1	3	2	4	*	*	1	1	*	*
Blackpoll Warbler	14	11	2	13	15	*	2	12	*	1
Cerulean Warbler	5	*	6	4	*	1	27	3	*	1
Black-and-white Warbler	13	2	1	5	2	*	48	6	3	62
American Redstart	21	1	3	6	2	*	26	5	2	4
Prothonotary Warbler	27	24	13	15	*	5	1	2	14	*
Worm-eating Warbler	1	*	6	2	*	1	14	10	5	8
Swainson's Warbler	4	*	*	*	*	*	*	*	*	1
Ovenbird	2	2	4	6	*	6	57	20	10	111
Northern Waterthrush	5	6	4	2	3	1	2	2	*	1
Louisiana Waterthrush	5	2	8	17	*	4	8	11	5	21
Kentucky Warbler	31	12	33	16	2	12	75	6	*	4
Connecticut Warbler	*	*	1	1	*	*	*	*	*	*
Common Yellowthroat	11	54	119	119	10	12	174	67	19	29
Hooded Warbler	12	1	6	14	2	*	53	17	*	167
Wilson's Warbler	3	*	*	*	*	*	1	1	*	*
Canada Warbler	*	*	*	5	*	*	4	3	*	12
Yellow-breasted Chat	2	34	68	36	5	5	71	23	*	8
Summer Tanager	34	20	56	72	5	7	43	13	*	*
Scarlet Tanager	16	14	23	20	2	9	26	34	8	49
Northern Cardinal	124	286	339	271	110	63	228	331	148	166
Rose-breasted Grosbeak	14	30	8	4	10	3	*	54	2	18
Blue Grosbeak	2	2	1	7	*	5	19	14	8	3
Indigo Bunting	200	131	253	207	20	26	413	132	16	33
Dickcissel	34	25	4	1	*	*	*	*	*	*
Rufous-sided Towhee	6	96	74	99	25	31	124	127	52	116
Chipping Sparrow	12	48	31	114	16	14	79	24	135	83
Field Sparrow	*	47	60	143	25	17	113	30	18	35
Vesper Sparrow	*	*	*	*	*	1	*	*	*	1
Savannah Sparrow	9	6	35	*	1	7	*	20	1	12
Grasshopper Sparrow	*	*	1	*	12	5	7	3	4	2
Song Sparrow	1	7	2	59	6	7	89	160	42	201
Lincoln's Sparrow	1	*	1	*	*	*	*	*	*	*
Swamp Sparrow	5	1	7	1	*	3	*	5	*	5
White-throated Sparrow	51	15	59	*	50	23	2	82	64	19
White-crowned Sparrow	5	11	1	*	4	3	*	13	32	15
Dark-eyed Junco	*	*	*	*	*	*	*	*	*	80
Bobolink	122	210	60	*	*	2	2	27	*	*
Red-winged Blackbird	90	165	429	1190	10	102	191	476	406	286
Eastern Meadowlark	27	170	204	197	90	95	209	190	240	210
Common Grackle	92	178	178	443	100	123	227	492	388	428
Brown-headed Cowbird	68	96	127	164	100	37	115	67	28	99
Orchard Oriole	14	22	105	51	2	2	63	23	1	21
Northern Oriole	10	3	3	5	*	*	3	5	3	6
Purple Finch	*	*	*	*	*	2	*	4	4	*
House Finch	11	141	57	74	60	56	45	133	103	137
Pine Siskin	*	*	*	*	*	*	*	*	*	5
American Goldfinch	39	197	160	227	120	46	56	115	122	439
Evening Grosbeak	*	*	*	*	*	*	*	*	*	*
House Sparrow	19	153	36	57	100	43	89	73	31	98
Total Species	128	133	146	162	111	125	125	150	109	149

The Migrant, 66 (2): 37-39, 1995.

MINUTES OF SPRING 1995 TOS BOARD OF DIRECTORS MEETING

The Spring Meeting of the Tennessee Ornithological Society was held 5-7 May 1995 at the Ramada Inn at I-65 and Harding Place in Nashville, with approximately 94 persons registered. The Nashville Chapter served as host. Field trips were taken on mornings of 6-7 May to: Radnor Lake, Cheatham W.M.A., Owl's Hill Nature Center, Ashland City Area, Shelby Bottoms, Richard Connor's farm, Deerwood Arboretum, and Warner Park. A total of 130 bird species were recorded.

TOS President Bob Ford opened the Directors' Meeting. The minutes of the Fall 1994 meeting were approved as written, except that the dates of this Spring Meeting were corrected to 5-7 May 1995.

COMMITTEE REPORTS: There were no VICE PRESIDENTIAL or DIRECTORS-AT-LARGE REPORTS. East Tennessee Vice President James Brooks recognized Linda Northrup for seeing 605 bird species during 1994.

TREASURER'S REPORT: (complete report in TOS Secretary's files) George Payne, Jr. reported ASSETS of $44,033 in three accounts, anticipated LIABILITIES of $39,106, with a CAPITAL RESERVE of $4,927. INCOME: Since the Fall 1994 meeting, $8,170 has been collected in dues, $1,327 in interest, and $64 miscellaneous. EXPENSES since the Fall 1994 meeting: ***The Migrant*** $2,543; *The Warbler* $471, and miscellaneous $7,721. MEMBERSHIP: 721 paid memberships. This compares to 918 at this same time last year. However, three chapters have not yet reported their membership. It is anticipated total membership is about 10% below last year.

George Payne reported that after 14 years he is relinquishing his position as Treasurer.

CURATOR: No report.

MIGRANT EDITOR Wallace Coffey reported the printing of the March 1993 issue. The next three issues are typeset and ready to print. He urged members to submit articles and roundtable notes. Martha Waldron and Ken Dubke are compiling a list of recommended subjects for articles and notes for distributing to members. Consideration is being given to consolidation of some issues in order to catch up on back issues and have adequate material for each issue; Wallace Coffey needs about 16 pages for each issue.

BREEDING BIRD ATLAS: Chuck Nicholson is in the process of making manuscript revisions for printing in 1996.

RECORDS COMMITTEE: Rick Knight reported the Committee Report is to be published in ***The Migrant***. Guidelines have been published in *The Warbler*. Don Davidson advised the new state bird checklist has been revised and is ready for printing by the Tennessee Wildlife Resources Agency (TWRA).

CONSERVATION COMMITTEE: Ken Dubke presented a Resolution in favor of the WILDLIFE DIVERSITY FUNDING INITIATIVE. It was seconded by Wallace Coffey, and the motion was passed unanimously.

George Mayfield, Jr. reported the COLUMBIA DAM project is being locally promoted at Columbia due to anticipated water needs. He believes the dam is not desirable as originally proposed. Public hearings are being held, and George Mayfield has spoken against completion of the dam.

Ron Hoff reported that TWRA Commissioner Babe Howard of Millington put

up $1 million to help assure PRESERVATION OF THE BEASLEY TRACT of the Wolf River of Fayette County and recommended Howard be commended for it by TOS as a way to encourage such actions. Bob Ford volunteered to prepare a letter of commendation. Copies are to be sent to local newspapers.

Chuck Nicholson advised an ENVIRONMENTAL IMPACT STATEMENT is being proposed by the Tennessee Valley Authority concerning the Obey River and possible projects to enhance the water supply.

Bob Hatcher reported that BLUEBIRD LICENSE PLATES went on sale in April 1995 at County Clerk offices. Approximately $22 of each $25 extra cost will be deposited in the WATCHABLE WILDLIFE ENDOWMENT FUND. After the Fund accumulates to at least $500,000, its earnings will be dedicated to support of TWRA's rare and nongame wildlife program. Bob Hatcher thanked TOS members for their substantial early and proposed participation.

EDUCATION COMMITTEE: No report.

THE WARBLER EDITOR: No report.

PARTNERS IN FLIGHT: Bob Ford distributed a list of 10-12 Tennessee areas where work is desired for 1995.

NOMINATING COMMITTEE: Ken Dubke, Candy Swan, and Martha Waldron nominated:

President - James Brooks, Jonesborough
Secretary - Harriette Spiegel, Chattanooga
Treasurer - Barbara Finney, Knoxville
(to be assisted with membership by Jo Anne Routledge, Greeneville)
West Tenn. - Mark Greene, Jackson
Middle Tenn. - Richard Connors, Nashville
East Tenn. - Marsha Davis
Directors-at-Large:
West Tenn. - Susan McWhirter
Middle Tenn. - David Hassler
East Tenn. - John Shumate

FINANCE COMMITTEE: Dick Newton reported he and Jim Ferguson have reviewed the Treasurer's records and found them in order for the last year.

PATCHES AND DECALS: There is currently no chairman.

TOS HISTORIAN: Chairman Bill Fowler reported he has been compiling TOS historical information.

MID-WINTER MEETING: Bob Ford reported on the meeting, held 4 February 1995 at Pickwick Landing, as per Bob Hatcher's minutes, which were distributed.

NEW BUSINESS: The Mississippi Ornithological Society invited a joint meeting with Mississippi, Alabama and TOS in northwest Mississippi in Fall 1996. Alabama does not want to leave its traditional Dauphin Island fall meeting and suggested a Wheeler Lake meeting in the winter. The consensus of the TOS Board is for a Mid-Winter meeting in January or February 1997. Official action will be taken at a later date.

Future FORAYS are proposed as follows:

- 27-29 May, 1995: Bird surveys to be conducted in Grainger and Hamblen Counties, with the Super 8 Motel of Morristown to be the headquarters.

• 24-25 June, 1995: A bird survey to be held in Anderson County, with the Comfort Inn of Oak Ridge likely to be the headquarters.

Dr. Allan R. Phillips was nominated by Marie Williams and Lula Coffey (in absentia) for HONORARY LIFE MEMBERSHIP in TOS. The nomination was seconded by Ken Dubke and was approved unanimously. Dr. Phillips joined TOS while stationed in Memphis during World War II. He remained a member for more than half a century. His recent volumes on *The Known Birds of North and Middle American, Distribution and Variation, Migrations, Changes, Hybrids, Etc.* are the culmination of his life's work as an independent researcher. This action by TOS was an expression of gratitude for his loyalty to TOS and served as a recognition for his ornithological achievements on the occasion of his 80th birthday.

President-elect James Brooks read Rad Mayfield's SCHOLARSHIP REQUEST for funding expenses of himself and 10 others for conducting point counts in May-June 1995 for 10 volunteer days in East Tennessee. A motion was made for $250 to be made available for reimbursable expenses; it passed with two dissenting votes.

THE GENERAL MEETING was held at the Ramada Inn following a banquet on 6 May. President Bob Ford summarized the afternoon Directors' Meeting, highlighting the TOS Resolution in favor of the Wildlife Diversity Funding Initiative, and the bluebird license plate status.

George Payne, Jr. summarized his TREASURER'S REPORT as given at the Directors' Meeting.

The NOMINATING COMMITTEE'S slate of officers were accepted as presented at the afternoon Directors' Meeting.

George Payne was honored with a DISTINGUISHED SERVICE AWARD for his 14 years as State Treasurer, six years as *Regional Breeding Bird Atlas* coordinator; eight years with Reelfoot Bald Eagle hacking, as well as leadership and dependable participation in his Memphis Chapter.

Nashville TOS President Richard Connors introduced two speakers: GARY MYERS, Executive Director of TWRA, and PAUL FRANKLIN, Birmingham, Alabama birder and nature photographer.

Gary Myers spoke on the subject, "Migratory Bird Management in Tennessee." He described how the North American Waterfowl Plan has revolutionized waterfowl management through a series of partnerships in the United States and Canada, involving federal and state governments, Ducks Unlimited, and others of common interest. This plan provides a good model for the other migratory birds — shorebirds and neotropical migrant birds. The Partners in Flight (PIF) program has been established with the U.S. Fish and Wildlife Service, with a National PIF leader and four regional PIF leaders to be selected.

The Lower Mississippi Valley Joint Venture Plan is being developed for integrating management of waterfowl, shorebirds, and neotropical migrant birds. This will be a good model for other areas. Gary Myers thanked TOS for its numerous past and continuing valuable contributions to bird study in Tennessee.

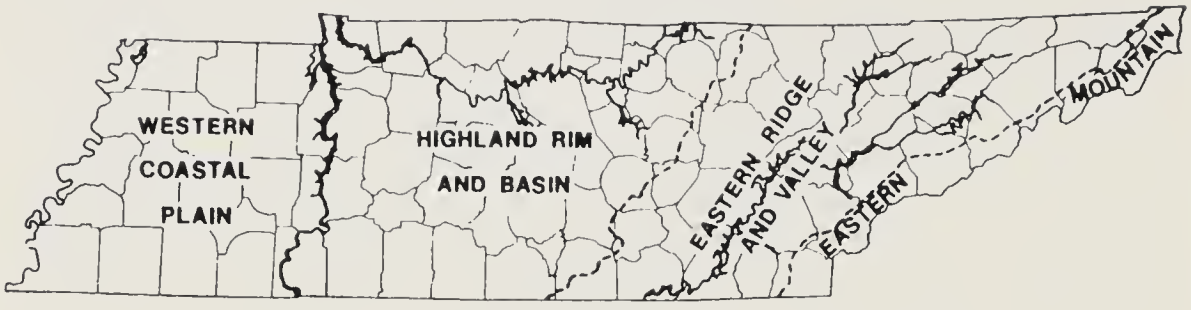
Paul Franklin narrated an excellent slide presentation concerning "Birding Hot Spots in Alabama."

Respectfully submitted,
BOB HATCHER, TOS Secretary

The Migrant, 66 (2): 40-44, 1995.

THE SEASON

Richard L. Knight, Editor



WINTER: 1 DECEMBER 1994 - 28 FEBRUARY 1995

WESTERN COASTAL PLAIN REGION - *Loon-Duck:* **Common Loon:** 3 Dec (1) Is 13 (WGC); 12/27 Dec-EOP (6 max) Rlft L (FJA, CJA, WGC, MAG). **Horned Grebe:** 4 Dec-24 Feb (60 max) Rlft L (FJA, CJA, WGC, MAG). **American White Pelican:** 9 Jan-EOP (225+) Rlft L, Obion Co. (FJA, CJA, WGC, David Hagar); 28 Feb (100+) Whites Lake (25) Black Bayou (WGC). **Double-crested Cormorant:** 17 Dec/25 Feb (260 max) Rlft L, Obion Co. (FJA, CJA, MAG). **ANHINGA:** 2-8 Dec (1 f) Samburg (WGC), first winter record. **Green Heron:** 18 Dec (1) Shelby Farms, Memphis CBC (*CHB, m.ob.). **Tundra Swan:** 3 Dec-EOP (1 im) Gray's Camp, Rlft L (WGC, MAG); 27 Feb (4 ad, 3 im) Whites Lake (WGC). **Greater White-fronted Goose:** 17 Dec (122) Rlft L CBC; 13/14 Feb (40) Halls WMA (DDP, DP). **Gadwall:** 17 Dec (3,065) Rlft L CBC. Greater Scaup: 17 Dec (5) Rlft L CBC; 14 Jan (2) Robco Lake, Shelby Co. (WBF). **Lesser Scaup:** 17 Dec (5,494) Rlft L CBC. **OLDSDQUAW:** 12 Dec (1 m) Rlft L (WGC). **Ruddy Duck:** 17 Dec (4,310) Rlft L CBC; 25 Feb (3000-4000) Spillway, Rlft L (FJA, CJA).

Eagle-Hummingbird: **Bald Eagle:** 2 Dec (1 ad) Lake Isom, at nest; 8 Dec (1) Lake Isom (WGC), on nest; 17 Dec (132 ad, 110 im) Rlft L CBC; 18 Dec (1 ad, 1 im) Memphis CBC (LCC, MaH, DDP); 8 Feb (1 im) Mud Island, Memphis (LCC, MaH); 4 Feb (1 ad) Halls WMA (DDP); 28 Feb (on nest) #9 Lake, KY (WGC). **Sharp-shinned Hawk:** 30 Nov (1) s Shelby Co. (OKM); 11 Dec (1) TEC (VBR, MGW); 17 Dec (1) Rlft L CBC; 18 Dec (4) Memphis CBC (MTOS); 27 Dec (1) e Memphis (CHB); 31 Dec (1) Jackson CBC (JTOS), 2 Jan (1) Mt. Orange, Madison Co. (BLG). **Cooper's Hawk:** 12 Dec (1) Overton Park (OKM); 17 Dec (2) Haywood Co. (WBF); 17 Dec (1) Rlft L CBC; 18 Dec (1) Memphis CBC (MTOS); 26 Dec (1) e Memphis (MLG); 7 Jan (1) Shelby Farms (MLG); 8 Jan (1) Shelby Farms (MTOS); 8 Jan (1) e Memphis (MGW); 22 Feb (1) Hardeman Co. (VBR, HBD, SSL, JPM); 25 Feb (1) Lake Co. (MAG). **"Krider's" Red-tailed Hawk:** 28 Jan (1) Black Refuge (BLG, MAG); 24-26 Feb (2) Paris Landing S P (FJA, CJA); 26 Feb (1) TEC (CHB, VBR, MGW). **Rough-legged Hawk:** 17 Dec (1) Haywood Co. (WBF); 14 Jan (2) TEC (RPF); 12 Feb (1) TEC (CHB, DoM, VBR, MGW). **GOLDEN EAGLE:** 28 Dec (1) Hardeman Co. (HBD, SSL, VBR); 4 Feb (1 im) Rlft L (OKM), this bird was transported from north Hardin Co. to the Memphis Zoo, it was kept for two weeks, banded and released at Reelfoot. **Merlin:** 8 Dec (1) Tipton Co. (DDP); 17 Dec (1) Rlft L CBC. **Peregrine Falcon:** 11 Dec (1 ad) TEC (VBR); 20 Dec (1 ad) midtown Memphis (OKM); 12 Jan (1) midtown Memphis (MaH, Louise Hays, LCC). **SANDHILL CRANE:** 25 Nov-EOP (83 max) ne Obion

Co. (Ralph Gray); 26 Jan (1) 30 mi south of Union City, Obion Co. (Larry Smith). **Killdeer:** 17 Dec (652) Rlft L CBC (MAG). **American Golden Plover:** 4 Dec (1) TEC (CHB, VBR), late Shelby Co. **Greater Yellowlegs:** 17 Dec (2) Rlft L CBC; 24-26 Feb (12) Lake Co. (FJA, CJA); 27 Feb (1) Dyer Co. (WGC). **Lesser Yellowlegs:** 17 Dec (5) Rlft L CBC; 25 Feb (8) Black Bayou (MAG). **Least Sandpiper:** 17 Dec (6) Rlft L CBC; 18 Dec (600+) Memphis CBC (MTOS). **Dunlin:** 18 Dec (1) Memphis CBC (MTOS). **American Woodcock:** 19 Nov (1) Memphis (GRP). **Bonaparte's Gull:** 2 Dec-EOP (531 max) Rlft L (WGC, MAG, BLG); 18 Dec (16) Memphis CBC (MTOS). **Ring-billed Gull:** 3 Dec (250) Is 13 (WGC); 7 Dec (2130) Rlft L CBC. **Forster's Tern:** 26 Dec (1 ad) Shelby Farms (MLG). Barn Owl: 17 Dec (1) Rlft L CBC. **Short-eared Owl:** 1 Dec (1) Shelby Farms (OKM, RDH, DoM, VBR, MGW); 17 Dec/24 Feb (3) Black Bayou (FJA, CJA m. ob.). ***Selasphorus sp.:*** 27 Dec-18 Feb (1) midtown Memphis (Jessica Robinson, fide VBR, DoM).

Swallow-Blackbird: **ROUGH-WINGED SWALLOW:** 8 Dec (2) Black Bayou (WGC), first winter record for state. **American Crow:** 31 Dec (22,271) Jackson CBC (JTOS). **Red-breasted Nuthatch:** 17 Dec (1) Rlft L CBC; 31 Dec (1) Jackson CBC (JTOS). **Carolina Wren:** 17 Dec (90) Rlft L CBC; 18 Dec (172) Memphis CBC (MTOS); 31 Dec (70) Jackson CBC (JTOS). **House Wren:** 7/22 Jan (3 max) Shelby Farms (CHB, MLG, VBR); 17 Dec (6) Rlft L CBC; 18 Dec (1) Memphis CBC (MTOS); 31 Dec (1) Jackson CBC (JTOS). **Winter Wren:** 17 Dec (5) Rlft L CBC; 18 Dec (7) Memphis CBC (MTOS); 31 Dec (5) Jackson CBC (JTOS); 7/22 Jan (2 max) Shelby Farms (CHB, MLG, VBR, MGW); 14 Feb (1) Chickasaw NWR (DDP, Don Preston); 24-26 Feb (2) Lake Co. (FJA, CJA). **Marsh Wren:** 17 Dec (2) Rlft L CBC. **BLUE-GRAY GNATCATCHER:** 18 Dec (1) Memphis CBC (*WBF). **American Pipit:** 17 Dec/25 Feb (28 max) Rlft L CBC (MAG); 2 Feb (25) TEC (CHB, DoM, VBR, MGW). **White-eyed Vireo:** 8 Jan (1) Shelby Farms (CHB, VBR, MGW). **Solitary Vireo:** 18 Dec (1) Whites Lake (WGC). **Cape May Warbler:** 4 Feb (1) Pickwick S P (RDH, MGW, m.ob.). **SUMMER TANAGER:** 14 Feb-EOP (1 f) s Shelby Co. (Cindy Bonner, fide LCC, DoM, VBR). **INDIGO BUNTING:** 18 Dec (1 m) Whites Lake (WGC). **American Tree Sparrow:** 17 Dec-EOP (49) Rlft L (WGC, MAG); 31 Jan (3) Whites Lake (WGC). **Vesper Sparrow:** 18 Dec (13) Memphis CBC (MTOS); 26 Dec (1) Dresden, Weakley Co. CBC; 25 Feb (2) Black Bayou (MAG). **GRASSHOPPER SPARROW:** 30 Dec (1) Whites Lake (WGC). **LeConte's Sparrow:** 17 Dec (1) Rlft L CBC. **Lapland Longspur:** 17 Dec (16) Rlft L CBC; 18 Dec (1) Memphis CBC (MTOS). **Rusty Blackbird:** 4 Dec (4) Black Bayou (WGC). **Brewer's Blackbird:** 22 Jan (1) Shelby Farms (MLG).

Locations: See page 68.

MARTHA G. WALDRON, 1626 Yorkshire Dr., Memphis, TN 38119

HIGHLAND RIM & BASIN REGION - *Loon-Nighthawk:* **Yellow-billed Loon:** 18-21 Feb (1) Dale Hollow L, Clay Co (*SJS, m.ob.), first state record. **Horned Grebe:** 2 Dec (150) Center Hill L, DeKalb Co (SJS, Michael Sanders); 26 Feb (90) Dale Hollow L, Clay Co (SJS, Tom Saya). **Black-crowned Night-Heron:** 10 Feb (3) Nashville (Robert Ford. **Canvasback:** 4 Jan (16) Woods Res. (RLW). **Oldsquaw:** 30 Dec (2) Cross Cr CBC. **Common Merganser:** 15 Dec (12) Woods Res. (RLW); 6 Feb (11) Old Hick L (RLW). **Osprey:** 15 Dec (1) Old Hick L (RLW). **Rough-legged Hawk:** 30 Dec (1)

Cross Cr CBC; 4 Feb (1) Mon Ponds (George Mayfield); 15 Feb (1) Ft. Campbell, Montgomery Co (TJW). **Merlin:** 1 Jan (1) ARRA, Davidson Co (Hickory-Priest CBC). **Virginia Rail:** 1 Jan (4) Gal Stm P (fide TJW). **Sora:** 1 Jan (2) Gal Stm P (fide TJW). **Sandhill Crane:** 13 Dec (125) Putnam Co (SJS); 19 Feb (1) Maury Co (RLW); 25 Feb (15) Ruth. Co (Steve Patrick). **Common Nighthawk:** 6, 26 & 28 Dec (6/1/1) Vanderbilt area, Nashville (Robert Ford, Portia MacMillan, Magnus Persmark).

Hummingbirds: **ANNA'S HUMMINGBIRD:** 6 Jan (1 ad f) Nashville (banded by Robert & Martha Sargent), present for some weeks before & after (m.ob.), first state record. **Rufous Hummingbird:** the following were banded by Robert & Martha Sargent — 15 Nov (1 im f) near Lebanon, Wilson Co, 15 Nov (1 im f) near Mt. Juliet, Wilson Co; 6 Jan (1 im f) Mt. Juliet, Wilson Co; 6 Jan (1 im f) White House, Robertson & Sumner Cos.

Lark-Oriole: **Horned Lark:** 29 Dec (40) Warren Co (SNM, MMcW). **Tree Swallow:** 28 Feb (2) Mon Ponds (William Jernigan). **House Wren:** 17 Dec (1) Cookeville CBC count week (BHS, SJS); 29 Dec (1) Warren Co (SNM, MMcW). **Blue-gray Gnatcatcher:** 31 Dec (1) Radnor L, Davidson Co (fide TJW); 2 Jan (1) Maury Co (Charles Voley). **Brown Thrasher:** 29 Dec (1) Warren Co (SNM, MMcW). **Cedar Waxwing:** 23 Feb (1000) Shelby Bottoms, Davidson Co (fide TJW). **Orange-crowned Warbler:** 17 Dec (1) Nashville CBC (Joe McLaughlin). **Palm Warbler:** 18 Dec (1) White Co (SJS); 21 Dec (1) Maury Co (Allyn Lay, William Jernigan); 29 Dec (1) Warren Co (SNM, MMcW). **Yellow-breasted Chat:** 21 Dec (1) Maury Co (Allyn Lay, William Jernigan). **Rose-breasted Grosbeak:** 17 Dec (1) Nashville CBC. **American Tree Sparrow:** 15 Feb (2) Ft. Campbell, Montgomery Co (TJW). **Vesper Sparrow:** 29 Dec (1) Warren Co (SNM, MMcW). **Savannah Sparrow:** 29 Dec (23) Warren Co (SNM, MMcW). **BULLOCK'S ORIOLE:** 3 Dec-EOP (1 ad m) Nashville (Mary Jane Evers, m.ob.), coming to feeder, second state record.

Locations: See page 68.

TERRY J. WITT, 507 Highland Terrace, Murfreesboro, TN 37130

CUMBERLAND PLATEAU/RIDGE & VALLEY REGION: A rather mild winter followed a mild autumn. Each month, December through February, experienced several days of 60+°F temperatures. This was countered by brief cold snaps in early January and early February. The northeast corner received a couple of light snows during the latter period. Overall, precipitation was near normal for the season.

Lingering or overwintering of normally transient species highlighted the season. Most notable among these were Osprey, Lesser Yellowlegs, and Barn Swallow. Waterfowl and gull numbers were low in general, probably reflecting the mild weather. The number of Sandhill Cranes wintering at the Hiwassee River Area continues to grow. Boreal irruptives did not invade. Rarities were few, so the season was rated as lackluster by most observers.

Loon-Nighthawk: **Common Loon:** 28 Jan (20) Chick L (RJH), max. **Pied-billed Grebe:** 2 Jan (45) Nick L (RJH), max. **Double-crested Cormorant:** 3 Dec (33) Nick L (RJH); 2 Jan (1) Middlebrook L, Bristol (JWC, LCM); 21 Jan (6) Hws R (RJH, DRJ); 8-10 all winter at Kpt (JWC, RLK). **American White Pelican:** 2 Feb into Spring (1) Jhn City (Brian Cross, JWN, FJA, m.ob.), 3rd area record. **Black-crowned Night-Heron:**

6+ all winter at Kpt (JWC, RLK). **Tundra Swan:** 28 Dec-18 Feb (2 im) Bristol (Richard Lewis, John Shumate, m.ob.). **Snow Goose:** 16 Jan (1) Wash Co (RLK). **American Black Duck:** 21 Jan (1030) Hws R (RJH, DRJ, TLR), max. **Mallard:** 21 Jan (2000) Hws R (RJH, DRJ, TLR), max. **Blue-winged Teal:** 25 Feb (2) Hmlt Co (TLR). **Redhead:** 24 Feb (148) Boone L (RLK), max. **Surf Scoter:** 11-22 Dec (1-2) Boone L (RLK), seen on Kpt CBC; 12 Feb (1) Ktn Stm P, Roane Co (DEH, TSM, CLS, SMS). **Common Goldeneye:** 28 Jan (20) Chick L (RJH), max. **Hooded Merganser:** 8 Jan (217) Middlebrook L, Bristol (JWC), new local high count. **Ruddy Duck:** 2 Jan (60) Nick L (RJH), max. **Osprey:** 16 Jan (1) Phipps Bend, Hawkins Co (LCM, Lloyd Jones); 17/19 Jan (1) Cher Dam, Jefferson & Grainger Cos (Phine Britton/RLK); possibly the same bird involved, as both sites are on Holston River; rare in winter. **Merlin:** 21 Jan (1) Chick L (TLR). **Peregrine Falcon:** 2 Jan (1) Nick L (RJH). **Sandhill Crane:** 14 Dec (275) eastern Putnam Co (SJS); 25 Dec (1) Rkn Bot, Cocke Co (JWB, Audrey Hoff); 21 Jan (1500) Hws R (RJH, DRJ, TLR); 26 Feb (4000+) Hws R (fide KHD). **Lesser Yellowlegs:** 21 Jan (2) Bradley Co (RJH, DRJ, TLR), very rare in mid-winter. **Dunlin:** 21 Jan (3) Bradley Co (RJH, DRJ, TLR). **Barn Owl:** 1-2 all season in Jhn City (FJA, RLK). ***Selasphorus* sp.:** 12 Dec-EOP (1) Chatt (fide Ron Rogers). **Horned Lark:** 11 Feb (100) Marion Co (RJH). **Barn Swallow:** 21 Jan (1) Bradley Co (RJH, DRJ, TLR), apparently the first Jan record in state. **Gray Catbird:** 31 Dec (1) Meigs Co (RJH); 1 Jan (1) Sullivan Co, on Bristol CBC (RLK). **Loggerhead Shrike:** scarce all season in northeast part of region (fide RLK). **Orange-crowned Warbler:** 3 Jan (1) Chatt (RJH). **Palm Warbler:** 17 Dec (1) Chatt (RJH); 21 Jan (4) Meigs Co (RJH); 22 Dec-29 Mar (4) Tri-Cities Regional Airport, Sullivan Co (RLK, LCM, TSM), despite several area winter records, this appears to be the first instance of overwintering in northeast Tennessee. **Chipping Sparrow:** up to 8 all season at Tri-Cities Regional Airport, Sullivan Co (RLK, LCM); 21 Jan (12) Booker T. Washington State Park, Hmlt Co (RJH). **Savannah Sparrow:** 11 Jan (10) Wash Co (RLK). **Dark-eyed (Oregon) Junco:** early Feb (1) Bristol (LCM). **Lapland Longspur:** 11 Feb (6) Marion Co (RJH). **Purple Finch:** very scarce.

Locations: See page 68.

RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604

EASTERN MOUNTAIN REGION: Precipitation was below normal for December and above normal for January and February. It was a very mild winter with average temperature above normal. The weir dam built below South Holston Dam continues to attract good numbers of wintering ducks, especially Buffleheads and wigeons. Northern finches evidently stayed north this winter as they were all but absent except for a scattered few individuals.

Loon-Snipe: **Common Loon:** 18 Dec (1) Watauga L. (JWC); 13 Jan (2) Watauga L. (RLK). **Horned Grebe:** 13 Jan (5) Watauga L. (RLK). **Black-crowned Night-Heron:** 11 Feb (2) Shady V. (JLS). **American Black Duck:** very low numbers. **American Wigeon:** 29 Jan (55) S. Hol. L. (JWC), max. **Greater Scaup:** 16 Dec-27 Feb (1-4) Wilbur L. (RLK, FJA et al.); 18 Feb (6) S. Hol. L. (JWC). **Ruddy Duck:** 27 Feb (1) Wilbur L. (RLK). **Bald Eagle:** 18 Dec (1 ad) Watauga L. (JWC); 1 Jan/9 Jan/25 Feb (1/3/1) S. Hol. L. (Ron Carico, Rob Biller/ Steve Kyviakedis, Amy Force/Steve Kim, Sherryl Maddux). **Common Snipe:** up to 12 along Watauga R. (m.ob.), thru period.

Raven-Grosbeak: **Common Raven:** 28 Dec (10) Big Bald Mt. (RM); 18 Jan (12) Roan Mt. (DEH), max. **Red-breasted Nuthatch:** small numbers on top of Roan Mt., only reports. **Swainson's Thrush:** 18 Dec (1) near Watauga L., Eliz. CBC (*JWC), second area winter record. **American Robin:** numerous all season with flocks of 200+ not uncommon. **Pine Warbler:** 27 Feb (1 singing) Wilbur L. (RLK), early arival. **Purple Finch:** only 3 or 4 reports all season of single birds. **Pine Siskin:** 18 Dec (1) Eliz. CBC (BLC); 26 Feb (1) Hampton (TSM), only reports. **Red Crossbill:** no reports. **Evening Grosbeaks:** no reports.

Locations: See page 68.

RICHARD P. LEWIS, 407 V.I. Ranch Road, Bristol, TN 37620

OBSERVERS: See page 69.

THE MIGRANT

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to Record and Encourage the Study of Birds in Tennessee.
Issued in March, June, September, and December.

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NOTICE TO RESEARCHERS AND LIBRARIES

Volume 68, Number 1, has preceded this issue. Volume 66, Numbers 1-4, is printed in this single issue, with Volume 67 to follow. Several references in this issue include dates later than the cover date of 1995. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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The Migrant, 66 (3) 46-48, 1995.

FIRST TENNESSEE RECORD OF VIOLET-GREEN SWALLOW WITH A SUMMARY OF EXTRALIMITAL RECORDS IN EASTERN NORTH AMERICA

Richard L. Knight
804 North Hills Drive
Johnson City, TN 37604

A single Violet-green Swallow (*Tachycineta thalassina*) was seen by the author on 27 March 1994 at Austin Springs, Washington County, in northeast Tennessee. This bird was in a flock of about 80 Tree Swallows (*T. bicolor*) foraging in a field adjacent to the Watauga River arm of Boone Lake. The observation occurred at about 11:00 EST and lasted for approximately one and a half to two minutes, after which the flock drifted northward and could not be found again. The bird was viewed through Nikon 10X binoculars at a range of 30-35 m (100-120 ft). The sky was overcast, but local visibility was good. The temperature was 18°C (65°F) and intermittent light rain fell.

Seen only in flight, the Violet-green Swallow appeared nearly the same size and shape as the nearby Tree Swallows. It was mostly dark above and clean white below from the throat to the undertail coverts. The upper back was greenish, but more of a lime-green than the bluish-green of the Tree Swallows. Other coloration on the dorsal surface could not be discerned. Most notably, the white flanks extended well up onto the upper rump, leaving a narrow dark strip down the middle. This feature was very distinct and eye-catching as the swallow banked and turned in flight. It should be pointed out that on some Tree Swallows, especially when seen side-on, their white flanks may slightly overlap onto the rump. However, when these birds bank and present a good dorsal view, their rumps show a much broader dark patch than on Violet-green Swallows. White on the cheek of the Austin Springs bird extended behind and slightly above the level of the eye, indicative of a male (Pyle *et al.* 1987). That this Violet-green Swallow was in a flock of Tree Swallows made for a good comparison of the two species. Field guides by Scott (1987) and Peterson (1990) were consulted shortly after the observation, confirming the field marks seen.

I have previous experience with Violet-green Swallows in several western states. Additionally, about two months after the Tennessee sighting, I had opportunity to study numerous Violet-greens in Utah and Arizona. Their rump pattern was bold

and easily seen, even at a considerable distance. These later observations reinforced my belief that the bird I saw in Tennessee was indeed a Violet-green Swallow.

This first report of a Violet-green Swallow in Tennessee was accepted by the Tennessee Bird Records Committee. The species was placed on the state provisional list, as no specimen or photograph was secured and less than three independent sight records exist.

DISTRIBUTION AND PATTERN OF VAGRANCY

A bird of the west and far northwest, the Violet-green Swallow breeds from Alaska and the Yukon south into Mexico (A.O.U. 1983). Their breeding range extends eastward into central Montana and the western portions of South Dakota, Nebraska, and Texas (*op. cit.*). As a long distance migrant, this species would certainly seem to be a plausible vagrant to eastern North America.

Extralimital records in eastern Canada and the United States are listed below. Accounts from the regional reports in *Audubon Field Notes/American Birds* are cited in the text.

Manitoba: Godfrey (1966) mentions one report in April 1945 at Sandilands, in the southeast corner of the province.

Ontario: One was seen 28-29 October 1992 at Thunder Cape Bird Observatory, on the northwestern shore of Lake Superior (*Am. Birds* 47:90, 1993).

Nova Scotia: One was seen 30 October 1965 at Crescent Beach, on the southeast coast (Tufts 1986).

Minnesota: Keating (1943) reported two on 25 October 1942 at Rochester. Another was seen 9-11 July 1990 at Claremont (*Am. Birds* 44:1136, 1990). Both locations are in the southeast corner of the state.

Missouri: Robbins and Easterla (1992) consider this species as hypothetical based on two sightings, only one of which was documented. Three birds were convincingly described 7 October 1974 at Lewis and Clark State Park, in northwest Missouri. They also mention a report of three on 9-11 April 1966 at LaPlata, in the north-central part of the state.

Illinois: A specimen was collected 4 May 1897 at Calumet (Bohlen 1989). Nearly a century later, one was seen 18 July 1991 at Wilmette (*Am. Birds* 45:1123, 1991). During 5-8 June 1994 a female Violet-green, observed nest-building and apparently paired with a Tree Swallow, was photographed in Winnebago County (*Aud. Field Notes* 48:949, 1994). All three locations are in northern Illinois.

Ohio: One was photographed on 16 May 1990 in Holmes County, in the north-central part of the state (*Am. Birds* 44:379 & 437, 1990).

New Hampshire: One was seen on 15 September 1965 at New Durham (*Aud. Field Notes* 20:7, 1966).

New Jersey: One photographed 7-10 November 1992 at Cape May, on the coast, was quite late (*Am. Birds* 47:73, 1993).

Florida: Robertson and Woolfenden (1992) classify this species as an unverified straggler, listing four sight reports. Of these, one was withdrawn by the observer, one was rejected by the Florida Ornithological Society Records Committee, and another is considered tentative. The other sighting was reported 8 February 1943 in Orange County.

Including the Tennessee sighting reported in this note, these 15 extralimital records came from each month from February to November, except for August. Five records were in spring, while six were in autumn, mostly October. The two July records probably pertain to early autumn migrants. Thus 13 of 15 (87%) reports are from the migrational period, as might be expected for this species. The October and November records are rather late for swallows, especially considering the northern locations involved.

It is noteworthy that nearly half (n=7) of these records are from the early 1990s. Clearly, observers in the east should be alert for additional sightings.

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TREE SWALLOWS NESTING IN MONTGOMERY COUNTY, TENNESSEE

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On June 30 1994 I observed a pair of Tree Swallows (*Tachycineta bicolor*) feeding nestlings in a Clarksville backyard. A few days earlier Dennis Wood had informed me about these swallows nesting in a box that he had put up for Eastern Bluebirds (*Sialia sialis*). Mr. Wood lives in a typical suburban neighborhood with many maples (*Acer* sp.) about 25 years old. The nearest wetland is a large shallow pond about one km away. Both adult swallows fed the young every few minutes, showing little concern about me and Mr. Wood sitting nearby. Mr. Wood reported that four young fledged on 7 July.

Although Tree Swallows have nested in at least a third of Tennessee's 95 counties (Nicholson in press), this was the first nest record in Montgomery County. Also, this nesting was later than most in Tennessee.

I thank David Snyder and Michael Bierly for encouragement to write this note.

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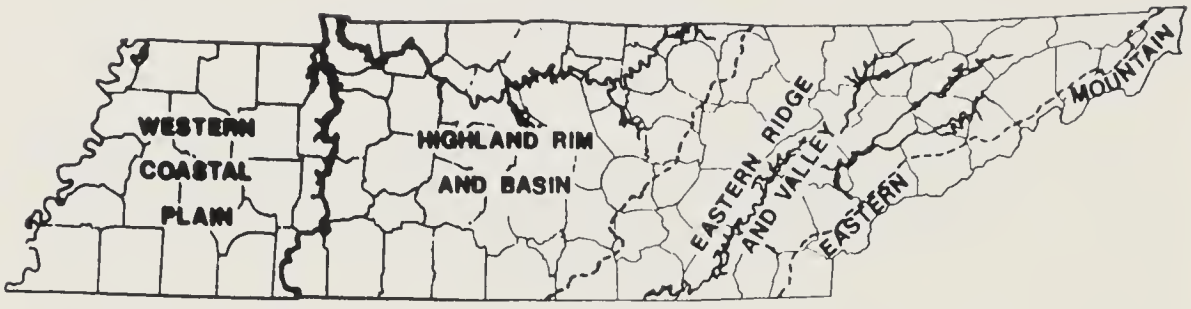
The Migrant, 66 (3): 50-55, 1995.

THE SEASON

Richard L. Knight, Editor



SPRING: 1 MARCH - 31 MAY 1995

WESTERN COASTAL PLAIN REGION - *Grebe-Merganser:* **Horned Grebe:** 28 Apr (1) Rlft L NWR (MAG). **American White Pelican:** 28 Mar (22) Whites Lake; 29 Mar/6 Apr (40 max) Is 13; 6 Apr (9) Is 21, Dyer Co. (all by WGC). **American Bittern:** 31 Mar-4 May (1) Whites Lake (WGC); 9 Apr (1) Humbolt Marsh (MAG). **Least Bittern:** 29 Apr (1) TEC (MAG, JRW); 4 May (1) Whites Lake (WGC). **Black-crowned Night-Heron:** 16 Apr-13 May (2) Whites Lake (WGC, MAG). **WHITE-FACED IBIS:** 22/23 Apr (1 ad) Shelby Farms (MLG, TMI, SNM, NPM, EJR, VBR, MGW), second record for Shelby Co., third record for TN. ***Plegadis sp.:*** 22 May (1) Mustin Bottoms (Rick Bryan, fide VaH). **Tundra Swan:** 4 Mar-23 Apr (1 im) Rlft L (WGC, MLG). **Green-winged Teal:** 15 Apr (1) Black Bayou (WGC). **EURASIAN WIGEON:** 8 Mar (1 m) Whites Lake (WGC). **CINNAMON TEAL:** 29-30 Mar (1 m) Hwy 152, Middle Fork Forked Deer River, Gibson Co. (MAG). **Greater Scaup:** 11 Mar (1 m) TEC (MAG, JRW); 23 Apr (1 m) Rlft L (MLG). **Lesser Scaup:** 1 Mar-EOP (8 max) Shelby Farms (MLG), late Shelby Co. **SURF SCOTER:** 12-17 May (2) Rlft L (David Haggar), late TN. **Red-breasted Merganser:** 4 Mar (3 m) Samburg (WGC); 19/25 Mar (2) TEC (DoM, VBR, MGW); 28 Mar (1 f) Everett Lake (WGC); 21 Apr (1 f) Shelby Farms (MLG); 2 May (1 f) Whites Lake; 3 May (1 f) Lake Co. (WGC); 3 May (1) Lake Graham, Madison Co. (MAG).

Osprey-Moorhen: **Osprey:** 9 Mar-15 Apr (2) Rlft L (WGC); 12 Mar (1) west of TN River at I-40 (SNM, NPM); 25 Mar/13 May (1) Hatchie NWR (MAG, DaN); 29 Mar (1) Whites Lake (WGC); 5 Apr (1) w Millington, Shelby Co. (VaH); 19/29 Apr (1) Hatchie NWR (RLB, HBD, KHG, SSL, JPM, VBR, BHW, DLW); 3 May (1) Hwy 79 W and Gr River Rd, Lake Co. (WGC), 12/21 May (on nest) Rlft L (MAG, MTOS). **Mississippi Kite:** 12 May (1) Overton Park (OKM): 20 May (75/20) Presidents Is/other areas of Shelby Co. (MLG, VBR); 22 May (51) Mustin Bottoms (VaH). **Bald Eagle:** 14 Mar-3 May (on nest-2 yg) #9 Lake (WGC); 21 Apr-3 May (2 yg) Lake Isom NWR (WGC); 21 May (5) Rlft L, Lake Co. (MTOS). There are four additional nests at Rlft L (WGC). **Sharp-shinned Hawk:** 13 Mar (1) Whites Lake (WGC); 18 Mar (1) Gibson Co. (MAG); 25 Mar (1) Hatchie NWR (MAG); 30 Apr (1) Shelby Forest S P (MTOS). **Cooper's Hawk:** 3 Mar (1) Gibson Co. (MAG); 4 Mar (1) Black Bayou (WGC); 6 Mar (1) e Shelby Co. (OKM). **Broad-winged Hawk:** 12 Apr (9) Shelby Forest S P (DDP). **American Kestrel:** Ten yg were hand reared at the Memphis Zoo. All will be banded and released in west Tennessee. **Peregrine Falcon:** 9 Mar (1) n Shelby Co. (SNM); 1/9 Apr (1) w Shelby Co. (LCC, MaH); 21 Apr (1) Black Bayou

(WGC); 29 Apr (1) w Shelby Co. (MAG); 13 May (1) Hatchie NWR (MAG, DaN); 20 May (1) w Shelby Co. (MLG); 2 May (1) Whites Lake (WGC). **King Rail:** 6 Apr-17 May (2) Whites Lake (WGC); 8 Apr (2) Humbolt Marsh (MAG); 20 May (1) TEC (MLG, VBR). **Virginia Rail:** 16 Apr (1) Humbolt Marsh (MAG). Sora: 31 Mar-4 May (8) Whites Lake; 6 Apr (1) Black Bayou (WGC); 28 Apr (1) Keystone Pocket, Rlft L (MAG); 30 Apr-14 May (1) Shelby Farms (VBR). **Purple Gallinule:** 12 May (1) Rlft L, Obion Co. (MAG). **Common Moorhen:** 3 May (2) Samburg (WGC).

Shorebirds: The EARTH Complex, Mustin Bottoms, Shelby Farms, Is 13, Whites Lake and other flooded fields in west TN attracted the expected shorebirds that travel the Mississippi Flyway. This report only reflects the more uncommon species or those species that set new departure dates. **American Golden-Plover:** 23 Mar-2 Apr (106 max) Dyer Co. (WGC); 25 Mar (1) Shelby Farms (MLG); 3/9 Apr (22/3) TEC (CHB, DoM, VBR, MGW); 8 Apr (20) TEC (MAG, GCK, ShK, JRW). **Black-bellied Plover:** 13 May (5) Presidents Is (GCP, VBR, MGW). **Black-necked Stilt:** 25 Mar-EOP (17) TEC (DoM, GCP, VBR, MGW); 15 May (pair) Shelby Farms (MLG). **Lesser Yellowlegs:** 14 Apr (178) TEC (CHB, DoM, VBR, MGW); 25 Apr (400+) Lake Co. (MLG); 29 Apr (200+) TEC (MAG, JRW); 4 Apr-23 May (30 max) Shelby Farms (MLG), late Shelby Co. **Solitary Sandpiper:** 29 Apr (150+) TEC (MAG, JRW). **Willet:** 21 Apr (2) Shelby Farms (MLG); 12 May (1) Whites Lake (MAG). **Spotted Sandpiper:** 13 Apr-30 May (7 max) Shelby Farms (MLG). **Western Sandpiper:** 25 Apr (10) Shelby Farms (JAZ, LVZ); 29 Apr (10) TEC (MAG, JRW); 12 May (1) Hwy 79 and Gr River Rd (MAG); 13-20 May (4 max) TEC (MLG, GCP, VBR, MGW). **Baird's Sandpiper:** 14 Mar (3) Whites Lake (WGC); 13 Apr-14 May (4 max) Shelby Farms (CHB, MLG, RDH, DoM, GCP, VBR, MGW). **Pectoral Sandpiper:** 22 May (1) Shelby Farms (MLG), late Shelby. **White-rumped Sandpiper:** 14 Apr-EOP (5) Shelby Farms (MLG, FCP, BTP); 12/17 May (10+) Whites Lake (WGC); 13 May (7) TEC (GCP, VBR, MGW); 13 May (10) Whites Lake (MAG); 13 May-EOP (7/2) TEC/Presidents Is (GCP, VBR, MGW); **Dunlin:** 11/15 Apr (3 max) Whites Lake (WGC); 29 Apr (5) TEC (MAG, JRW); 13 May (17) Whites Lake (MAG); 13 May (2) Shelby Farms (GCP, VBR, MGW). **Long-billed Dowitcher:** 8 Apr (2) TEC (MAG, GCK, ShK, JRW); 30 Apr-19 May (3) Shelby Farms (MLG), late Shelby Co. and TN; 13 May (7) Presidents Is (GCP, VBR, MGW). **Short-billed Dowitcher:** 29 Mar/29 Apr (5 max) Gibson Co. (MAG); 29 Apr (2) TEC (MAG, JRW); 15 Apr-15 May (10 max) Shelby Farms (MLG, VBR); 17 May (8) Whites Lake (WGC). ***Dowitcher sp:*** 16/17 Mar (6 max) Mustin Bottoms (VBR); 15 Apr/ 2 May (1) Shelby Farms (CHB, MLG, RDH, DoM, WRP, VBR, MGW). **Wilson's Phalarope:** 5/11 Apr-12 May (3 f, 1 m) Whites Lake (WGC); 29 Apr (2) TEC; 13 May (2) Whites Lake (MAG); 13/16 May (2 pair) Shelby Farms (MLG, GCP, VBR, MGW).

Gull-Owl: **Franklin's Gull:** 18 Mar (1) Rlft L (MAG). **Caspian Tern:** 15 Apr (4) Is 13 (WGC). **Forster's Tern:** 11 Apr (8 ad, max) Shelby Farms (MLG); 3/5 May (5) Lake Co. (WGC); 12 May (1) Rlft L, Obion Co. (MAG). **Black Tern:** 12 May (6) Rlft L, Obion Co. (MAG); 21 May (5) Rlft L (MTOS). **Black-billed Cuckoo:** 29 Apr (1) TEC (MAG, JRW). **Barn Owl:** 6 Mar (1 ad) e Shelby Co.; 23 Apr (active nest) se Shelby Co., 1 May (1 dead) Somerville, Fayette Co. This bird was found ten miles from release and banding site of June 1993 in Moscow, TN; 6 May (nest 7 yg) Fayette Co. (OKM). This year 16 yg birds (5 from MS, 5 from Shelby Co., 2 from Arkansas, and 4 from west TN) were hand reared at the Memphis Zoo. All will be banded and released in west TN. **Eastern Screech Owl:** 5 Mar (1) midtown Memphis (LCC,

MH). **Great Horned Owl:** 17 Mar (active nest) Millington, Shelby Co.; 21 Mar (nest with yg) Bartlett; 28 Mar (nest with yg) Collierville, Shelby Co. (OKM). Six yg owls were hand reared at the Memphis Zoo. **Barred Owl:** 24 Apr (nest with yg) Eads (OKM).

Flycatcher-Meadowlark: **Olive-sided Flycatcher:** 12 May (1) Burnt Wds (MAG). **Willow Flycatcher:** 12 May (2) Black Slough (responded to tape); 13 May (1) Whites Lake (MAG). **Least Flycatcher:** 30 Apr (2) Shelby Forest S P (SNM, VBR); 4 May (1) Lake Graham, Madison Co. (MAG); 12 May (1) Walnut Log (MAG), responded to tape. **Alder Flycatcher:** 12 May (1) Walnut Log (MAG). **SCISSOR-TAILED FLYCATCHER:** 13 May (1) Presidents Is (GCP). **Tree Swallow:** 3 Mar (11) Lauderdale WMA (WGC), early west TN. **Brown Creeper:** 30 Apr (1) Shelby Forest S P (Ian Carson), late Shelby Co. **House Wren:** 4 Mar (1) TEC (MLG, MGW); 18 Mar (2) Overton Park (MTOS); 14 Apr (1) e Memphis (VBR); 20 Apr (1) Humbolt Marsh (MAG). **Marsh Wren:** 16 Apr (1) Humbolt Marsh (MAG); 28 Apr (1) Shelby Farms (VBR). **Veery:** 26 Apr (1) Shelby Farms (WRP); 30 Apr (2) Shelby Forest S P (MTOS); 3 May (2) Cypress Grove (MAG); 12 May (1) Rlft L NWR, Obion Co. (MAG). **American Pipit:** 3 Mar/ 2 May (15/5) Lauderdale WMA/White Lake (WGC); 6 Apr (1) Black Bayou (WGC). Warbler migration reached its height the third and fourth weeks of April. All species of warblers usually seen in the Mississippi Flyway were present. **Cape May Warbler:** 25 Apr (1) Shelby Forest S P (DDP). **Swainson's Warbler:** 15 Apr-2 May (4 max) Shelby Forest S P (DDP, WRP, MTOS); 22 Apr (1) Hatchie NWR (MTOS); 12 May (1) Rlft L (MAG); 26 Apr-16 May (1) Shelby Farms (WRP, GCP, VBR, MGW); 13 May (1) Hatchie NWR (MAG, DaN). **Northern Waterthrush:** 22 Apr (1) Hatchie NWR (MTOS); 30 Apr/2 May (5/1) Shelby Forest S P (MTOS/WRP); 2 May (1) TEC (WRP); 3 May (1) Cypress Grove (MAG); 4 May (1) Lake Graham, Madison Co. (MAG); 2/20 May (2 max) Shelby Farms (MLG, VBR). **Painted Bunting:** 10 May (1) Presidents Is (HBD, SSL, VBR); 20 May (3/1) Presidents Is/TEC (MLG, VBR). **Vesper Sparrow:** 4/5 Apr (2 max) Shelby Farms (MLG); 8 Apr (6) TEC (MAG, GCK, ShK, JRW); 13 May (1) Shelby Farms (TMI, RLI, GLI). **Lark Sparrow:** 25 Apr (1) Shelby Farms (JAZ, LVZ). **Savannah Sparrow:** 18 May (1) Shelby Farms (MLG), late Shelby Co. **Grasshopper Sparrow:** 15 Apr (1) Shelby Farms (VBR); 28 Apr/12 May (2) Is 13 Rd (MAG); 10 May (1) Presidents Is (HBD, SSL, VBR); 13 May (5) Presidents Is (GCP, VBR, MGW); 13 May (2) Whites Lake (MAG); 21 May (1) Is 13 Rd. (MTOS). **Lincoln's Sparrow:** 30 Apr (1) Shelby Forest S P (SNM); 2 May (1) TEC (WRP); 12 May (1) Levee Rd, Lake Co. (MAG). **Bobolink:** 26 Apr-2 May (115 max) Shelby Farms (SNM, WRP, MLG, VBR); 28 Apr (1) Black Bayou (MAG); 2 May (1) Mustin Bottoms (VaH); 2 May (2) TEC (WRP); 12 May (2) Is 13 Rd (MAG); 13 May (6) Hatchie NWR (MAG). **Western Meadowlark:** 8 Apr (1) TEC (MAG, GCK, ShK, JRW).

Locations: See page 68.

MARTHA G. WALDRON, 1626 Yorkshire Dr., Memphis, TN 38119

HIGHLAND RIM & BASIN REGION - *Egret-Owl:* **Snowy Egret:** 6 May (2) Old Hick L (TJW, David McCarroll). **Surf Scoter:** 2/19 Apr (2-3) Radnor L (GAF et al./TJW, m.ob.). **Common Merganser:** 1 Mar (12) Big Sandy Unit, Tenn. NWR, Benton Co (TJW). **Red-breasted Merganser:** 6 May (3) Old Hick L (TJW, David McCarroll). **Peregrine Falcon:** 21 Mar (1 ad) Nashville (Mark Hackney). **Great Black-backed**

Gull: 1 Mar (1 first-winter plumage) Paris Landing State Park, Henry Co (TJW). **Barn Owl:** Apr-May (nesting pair) Ruth. Co (TJW et al.).

Flycatcher-Vireo: **Scissor-tailed Flycatcher:** 29 Apr (1) Ruth. Co (Scott Degenhart). **Acadian Flycatcher:** 19 Apr (1) Nashville (MLM), ers. **Northern Rough-winged Swallow:** 18 Mar (2) Radnor L (MLM), ers. **Barn Swallow:** 18 Mar (1) Radnor L (MLM), ers. **Bewick's Wren:** Apr-May (nesting pair) Beasley Rd., Ruth. Co (TJW). **Marsh Wren:** 26 Apr (1) Mon Ponds, Maury Co (TJW). **Red-eyed Vireo:** 14 Apr (1) Radnor L (MLM), ers.

Warbler-Sparrow: **Blue-winged Warbler:** 16 Apr (1) Radnor L (MLM), ers. **"Lawrence's" Warbler:** 26 Apr (1) Nashville (Jan Alexander). **Orange-crowned Warbler:** 5 Apr (1) Radnor L (Hazel Cassel, Jan Shaw, Phillip Casteel); 12 Apr (1) Murf. (TJW). **Cape May Warbler:** 1-6 May (4) Ruth. Co (TJW). **Black-and-White Warbler:** 26 Mar (1) Radnor L (MLM), ers. **American Redstart:** 28 Mar (1) Nashville (MLM), ers. **Connecticut Warbler:** 10 May (3) Radnor L (TJW); 11-15 May (1) Murf. (TJW). **Mourning Warbler:** 16-18 May (2) Murf. (TJW). **Dickcissel:** 24 May (1) Sumner Co (Ann Tarbell). **Lark Sparrow:** Apr-May (2) Wilson Co (TJW); 8 Apr (1) Nashville (MLM). **Grasshopper Sparrow:** Apr-May (25+) Wilson Co (TJW). **Fox Sparrow:** 29 Apr (2) Ruth. Co (Richard & Wilma Hunter), late.

Locations: See page 68.

TERRY J. WITT, 507 Highland Terrace, Murfreesboro, TN 37130

CUMBERLAND PLATEAU/RIDGE & VALLEY REGION: Following a mild winter, spring was generally mild and dry. The heaviest snowfall of the season came on 8 March, with 3-4 inches accumulating at Johnson City. This was immediately followed by two weeks of clear, 70°F weather (10-15° above normal), which seemed to have more impact on vegetation than on bird migration in the region. April had closer to normal temperatures, but was rather dry. May was a bit cool, wet, and stormy.

Waterfowl mostly departed early (note a couple of exceptions), while shorebirds were found in rather small numbers. A spring hawkwatch at Soddy-Daisy produced modest counts. The passerine flight was also modest. Regional highlights include nesting cormorants in Hawkins County, a lingering White Pelican, and two Mississippi Kites in opposite ends of the region.

Loon-Nighthawk: **Common Loon:** 9 May (1) Aus Spr (RLK), lrs. **Pied-billed Grebe:** 3 May (1) Aus Spr (RLK), lrs. **Horned Grebe:** 6 May (1) Chatt (RJH), lrs. **Double-crested Cormorant:** 8 Apr (24) Tennessee River Gorge, Marion Co (TLR); 8 Apr (30+, with 5+ on nests) Holston Army Ammunition Plant, Hawkins Co (Bill Little, JWC et al.); up to 17 present all season at Kpt (RLK); 5 reports of 1-3 at Boone L/Aus Spr thru 3 May (RLK); 13 May (14) Rkn Bot (RLK). **American White Pelican:** the individual reported in Feb lingered throughout the spring and into summer in the Jhn City area (m.ob.). **Least Bittern:** 1 May (1) Bra Lev (KAC). **Great Blue Heron:** 8 Apr (ca. 50 nests) Holston Army Ammunition Plant, Hawkins Co (Bill Little, JWC et al.), present about 4 years, first nesting known northeast of Knoxville. **Great Egret:** 4/9 Apr (1/2) Aus Spr (RLK/TSM, CLS); 8 Apr (2) Baylor L, Hmlt Co (RJH); 14 Apr (1) Bra Lev (RJH); 24 May (1) Conklin, Wash Co (FJA). **Little Blue Heron:** 1-2 May (1) Bra Lev (KAC). **Black-crowned Night-Heron:** up to 10 present all season at Kpt (RLK et al.). **Canada Goose, Wood Duck,** and **Mallard:** good nesting suc-

cess in northeast Tenn. (m.ob.). **Green-winged Teal:** 8 May (1) Bra Lev (RJH), lrs. **American Wigeon:** 8 May (2) Aus Spr (RLK), lrs. **Hooded Merganser:** 13 May (1) Hmlt Co (fide KAC); 23 May (1) Jhn City (FJA), lrs. **Red-breasted Merganser:** 6 May (1) Nick L, Marion Co (RJH), lrs. **MISSISSIPPI KITE:** 30 Apr (1) Soddy-Daisy (WGH); 19 May (1) Conklin, Wash Co (FJA), first record in northeast Tenn. **Sharp-shinned Hawk:** 4 Mar-30 Apr (29) Soddy-Daisy (WGH). **Cooper's Hawk:** 25 Feb-16 Apr (13) Soddy-Daisy (WGH); 24 Mar-EOP (pair with nest) Aus Spr (RLK et al.). **Red-shouldered Hawk:** 25 Feb-21 Apr (25) Soddy-Daisy (WGH). **Broad-winged Hawk:** 6-30 Apr (142) Soddy-Daisy (WGH); 16 Apr (16) Bristol (LCM). **Red-tailed Hawk:** 25 Feb-18 Apr (110) Soddy-Daisy (WGH). **American Kestrel:** for the third consecutive year, a pair nested in a hole beneath the eave of a two-story farmhouse in Wash Co (RLK). **Peregrine Falcon:** 23 Apr (1) Wash Co (JWB). **Northern Bobwhite:** remain scarce in the Jhn City area (m.ob.). **Virginia Rail:** 29 Mar-19 Apr (1-2) Meadowview Marsh, Kpt (RLK, TSM, CLS); 1-2 May (1) Bra Lev (KAC et al.). **Sora:** 9 Apr (1) Meadowview Marsh, Kpt (TSM, CLS); 25 Apr-8 May (1-6) Bra Lev (WGH, KAC et al.); 21 May (1) Aus Spr (TSM, CLS). **Common Moorhen:** 13 May (1 roadkill) Sale Creek, Hmlt Co (fide KAC). **Greater Yellowlegs:** 22 Mar (1) Bra Lev (RJH), ers; 14 May (1) Aus Spr (RLK), lrs. **Lesser Yellowlegs:** 13 Mar (5) Bra Lev (KAC), ers; 13 May (8) Hmlt Co (fide KAC), lrs. **Solitary Sandpiper:** 14 Mar (1) Volunteer Army Ammunition Plant, Hmlt co (LAW). **Baird's Sandpiper:** 7 May (4) Lst, Wash Co (FJA). **Short-billed Dowitcher:** 13 May (55) Bra Lev (KAC, DFV). **Bonaparte's Gull:** 4 Apr (180) Boone L (RLK). **Forster's Tern:** 9/19 Apr (1) Aus Spr (RLK). **Barn Owl:** nests in Bristol (JWC) & Jhn City (FJA); 10 May (9 pre-flight yg) nest tree felled during storm in Marion Co (Mike Bailey fide Bruce Anderson). **Chimney Swift:** 30 Mar (2) Aus Spr (RLK), ers. **Ruby-throated Hummingbird:** 1 Apr (1) Chatt (WGH), ers. **Red-headed Woodpecker:** 4 active nest sites in Wash Co (RLK, FJA). **Horned Lark:** 9 May (1 singing) Wash Co (DEH). **Tree Swallow:** 2+ nests at Holston Army Ammunition Plant, Hawkins Co (JWC, RLK et al.); up to 5 nests at Aus Spr, with single nests at nearby Winged Deer Park & Rocky Mount (RLK, FJA), all nests in nest boxes; 13 May (10) Rkn Bot (RLK). **Northern Rough-winged Swallow:** 19 Mar (2) Fall Creek Falls S. P., Van Buren Co (WGH), ers. **Cliff Swallow:** 13 May (ca. 200 nests under bridge) Rkn Bot (RLK). **Common Raven:** 27 Apr (1) Boone Dam, Wash Co side (RLK). **House Wren:** 29 Mar (1) Kpt (RLK), ers. **Sedge Wren:** 26 Mar-15 Apr (1-2) Meadowview Marsh, Kpt (TSM, CLS). **Marsh Wren:** 22 Apr (1) Soddy-Daisy (WGH); 13 May (1) Bra Lev (KAC, DFV); 18 May (2) Aus Spr (FJA). **White-eyed Vireo:** a bird banded in mid Nov 1994 was recaptured 15 Mar at Amnicola Marsh, Hmlt Co (DFV), apparently having overwintered. **Warbling Vireo:** 29 Apr (1) Bowmantown, Wash Co (RLK); 7 May (1) Lst, Wash Co (FJA); 13 May (1) Rkn Bot (RLK); 20 May (3) Kpt (FJA); all appeared to be on territory. **Orange-crowned Warbler:** 15 Mar (1) Chatt (RJH). **Mourning Warbler:** 6 May (1) Chatt (RJH); 29 May (1) Kpt (CLS). **Wilson's Warbler:** 12 May (2) Wash Co (FJA), scarce in spring. **Dickcissel:** 19 May (2) Conklin, Wash Co (FJA). **Vesper Sparrow:** 2 Apr (16) Bristol (JWC), max. **Sharp-tailed Sparrow:** 18 May (1) Aus Spr (FJA), 5th spring record (15th overall) in northeast Tennessee. **Fox Sparrow:** 7 May (1) Aus Spr (TSM), very late. **Bobolink:** 23 Apr (70) Chatt (WGH); 2 May (40) Wash Co (fide Brad Jones).

Locations: See page 68.

RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604

EASTERN MOUNTAIN REGION: April was a very dry month, but March and May had above normal precipitation. A flood in the Great Smoky Mountains National Park in late March was labeled the worst in 20 years. Breeding warblers generally arrived on time and in good numbers. Northern finches continued to be scarce.

Loon-Owl: **Common Loon:** 14 May (2) Watauga L. (TSM), lrs. **Horned Grebe:** 6 Apr (1) Buffalo Valley (FJA). **Double-crested Cormorant:** 15-20 Apr (1) Watauga R. (RLK, DEH). **Black-crowned Night-Heron:** 12 Apr (1) Roan Cr. (TSM). **Yellow-crowned Night-Heron:** 16 May (1) Sycamore Shoals State Park, Carter Co. (FJA), despite numerous checks, this is the only report at a spot where normally present. **Wood Duck:** 1 Apr (36) Beaver Creek, Johnson Co. (JLS), all in one flock. **Northern Shoveler:** 22 Apr (1) Erwin, Unicoi Co. (JWB). **Redhead:** 17 Mar-20 Apr (6-1) Wilbur L. (RLK, m.ob.). **Greater Scaup:** 4 Mar (1) S. Hol. L. (JWC). **Hooded Merganser:** 14 Apr (1 f) Erwin, Unicoi Co. (RLK). **Ruddy Duck:** 4 Mar (1) S. Hol. L. (JWC). **Bald Eagle:** 1/2/6 Mar (1/1/2) S. Hol. L. (Joe McGinnis, Ace Rowland). **Northern Harrier:** 29 Apr (2) Carter Co. (GOW, CFW), lrs. **Red-tailed Hawk:** 2 Apr (adult on nest) Holston V. (JWC, JLS). **Ring-billed Gull:** 30 May (5) Watauga L. (DEH), lrs. **Herring Gull:** 30 May (1) Watauga L. (DEH), only report, late. **Black-billed Cuckoo:** 11 May (1) Hampton Creek, Roan Mt. (FJA), only report. **Northern Saw-whet Owl:** 7 Apr thru 6 May (nest with 6 eggs, then 6 yg) Roan Mt. (MB); 11 May (second nest with 6 eggs) Roan Mt. (MB); 15 Apr (1 calling) Big Bald Mt. (RM), first record there; 10-12 May (2 calling) Unaka Mt. (MB).

Flycatcher-Siskin: **Alder Flycatcher:** 16 May (1) Roan Mt. (FJA), ers. **Tree Swallow:** during May (1 pair nesting) Ripshin L. (FJA). **Common Raven:** 7 Apr (nest with 2-3 yg) Doe River Gorge, Carter Co. (RLK); 16 Apr (11) Roan Mt. (TSM), max; 19 Apr (1) Nolichucky River Gorge, Unicoi Co. (RLK); 13 May (1) Hampton (TSM). **Golden-crowned Kinglet:** 17 May (1 on territory) Limestone Cove, Unicoi Co. (FJA), low elevation. **Golden-winged Warbler:** 22 Apr (1) Bumpas Cove, Unicoi Co. (JWB), ers. **Magnolia Warbler:** Four males present at suspected breeding site on Unaka Mt. (FJA). **Cerulean Warbler:** 21 May (1) Holston Mountain, Sullivan Co. (JWC, Ron Carrico, Rob Biller). **Prothonotary Warbler:** 13 Apr (1) Buffalo Valley (GOW), early arrival record by 2 days. **Wilson's Warbler:** 8 May (1) Limestone Cove, Unicoi Co. (RM). **White-throated Sparrow:** 17 May (1) Hampton (TSM), lrs. **Purple Finch:** 18 Mar (1) S. Hol. L. (RPL), only report. **Red Crossbill:** 7 Apr (10) Roan Mt. (MB). **Pine Siskin:** 9 May (1) Hampton (TSM); small numbers thru season on Roan Mt. (m. ob.).

Locations: See page 68.

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OBSERVERS: See page 69.

THE MIGRANT

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Issued in March, June, September, and December.

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NOTICE TO RESEARCHERS AND LIBRARIES

Volume 68, Number 1, has preceded this issue. Volume 66, Numbers 1-4, is printed in this single issue, with Volume 67 to follow. Several references in this issue include dates later than the cover date of 1995. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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THE MIGRANT

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AQUATIC BIRDS OF HOLSTON ARMY AMMUNITION PLANT, KINGSPORT, TENNESSEE

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and
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A floral and faunal survey of Holston Army Ammunition Plant (HAAP) was conducted during 1991-92. This was done in partnership with the Department of Defense (Legacy Program) and the Tennessee Nature Conservancy and was the first such project in the state of Tennessee.

Aquatic birds seen during each field trip were documented. The wetlands of HAAP provided habitat utilized by 17 species, of which two are "deemed in need of management" and one as "threatened" by the Tennessee Wildlife Resources Agency.

STUDY AREAS

Holston Army Ammunition Plant is shown on Church Hill, TN-VA USGS 7.5 minute quadrangle. Situated primarily in Hawkins County, HAAP is bounded to the south by Holston River Mountain. Elevation of this mountain ranges from approximately 731 to 372 meters at the base. Holston River separates the industrial complex from the magazine area. Elevation at the plant area is approximately 366 meters. Holston Army Ammunition totals 2,436 hectares. Of this total, 1,432 hectares are forest. There are approximately 3.42 kilometers of river running through HAAP. Three islands occur in the river and provide potential rookery habitat. In order of descending area these are Clay Islands (situated in an east-west axis in the river), and Hawkins and Negro Islands (both situated in a north-south axis). Other wetlands at HAAP include some temporary areas, and man-made maintained wetland areas.

Box Elder (*Acer negundo*) dominated the tree layer along the Holston River. The second most important species was slippery elm (*Ulmus rubra*). Other important tree species in descending importance value are sycamore (*Platanus occidentalis*), black locust (*Robinia pseudo-acacia*), green ash (*Fraxinus pennsylvanica*), black walnut (*Juglans nigra*), buckeye (*Aesculus octandra*), and American elm (*Ulmus americana*).

Spicebush (*Lindera benzoin*), Carolina buckthorn (*Rhamnus caroliniana*) and grapevines (*Vitus spp.*) were important shrubs. Black willow (*Salix nigra*) occurs along the river banks and man-made swamps, but did not appear in our sample plots. Stands of cane (*Arundinaria gigantea*) were observed on Clay Islands.

METHODS

Dates of survey for the entire HAAP were 6 January 1991 to 18 September 1992. Notes were kept during each visit on bird sightings. River banks and islands were monitored. The bridge to the magazine area provided an excellent viewing platform. River banks were slowly walked and islands, ponds and wetlands were viewed.

RESULTS AND DISCUSSION

The Holston River and other wetlands provide important habitat for the HAAP avian community. Seventeen of 60 bird species observed are associated with water. Table 1 lists aquatic birds seen during our study.

A most interesting record is that of the Double-crested Cormorant (*Phalacrocorax auritus*) which is designated as "deemed in need of management" in Tennessee (Alsop 1980). This species was first sighted 17 April 1992 when five individuals were sighted floating on the river at approximately river mile 137 off Solitude Bend. One of these birds was believed to be a juvenile due to the presence of a brownish head and neck. This led us to believe a resident reproducing colony was present. Our belief was strengthened when on 14 May 1992 we observed an individual carrying nest material in its beak.

Two cormorant nests, each with two nestlings, were observed 22 June 1992 on Clay Islands. These nests were found within a nesting colony of Great Blue Herons (*Ardea herodias*). This represents the first documented observation of nesting Double-Crested Cormorants in Tennessee since 1955 (Robinson 1990). Figure 1 shows previous county nesting records (dot shaded) and Hawkins County (solid shaded).

Great Blue Herons, also "deemed in need of management" in Tennessee (Alsop 1980), were sighted on every field trip. A rookery consisting of several nests was found on Clay Islands. This colony had nested on the islands in previous years as old nests were observed in January 1991.

On 23 June 1992, an Osprey (*Pandion haliaetus*) nest was found just off HAAP property on Long Island. The nest was situated atop a powerline pylon. No young were sighted, but we did observe a single adult Osprey on four different occasions in the Clay Islands vicinity. Ospreys are considered "endangered" within the state of Tennessee (Alsop 1980).

A single Little Blue Heron (*Egretta caerulea*) was observed on 8 March 1992. Seen only on this one occasion, we suspect this individual was a migrant. Little Blue Herons are of "special concern" in Tennessee (Alsop 1980) and are apparently uncommon in the eastern portion of the state (Robinson 1990).

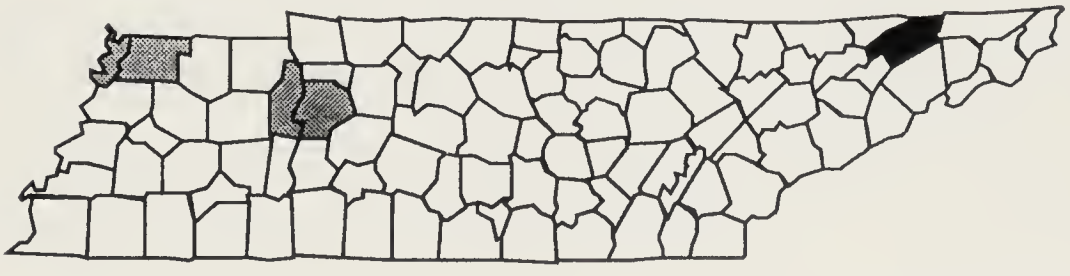
A Greater Yellowlegs (*Tringa melanoleuca*) was sighted on 14 May 1992 wading in one of the man-made black willow swamps. We believe this individual was a late spring migrant as it was sighted only on this occasion.

The Holston River and wetlands within the confines of HAAP serve as a waterfowl refuge as hunting is not allowed. HAAP leases bottomlands to farmers for grain and pasture production. This practice attracts and maintains waterfowl during the autumn, winter and early spring months. Canada Geese (*Branta canadensis*) and eight species of ducks were commonly observed (Table 1).

TABLE 1. List of aquatic birds seen on HAAP from 6 January 1991 to 18 September 1992.

Accipitridae	
Paudion haliaetus	Osprey
Alcedinidae	
Ceryle alcyon	Belted Kingfisher
Anatidae	
Aix sponsa	Wood Duck
Anas acuta	Northern Pintail
Anas clypeata	Northern Shoveler
Anas platyrhynchos	Mallard
Anas rubripes	American Black Duck
Anas strepera	Gadwall
Aythya collaris	Ring-neck Duck
Branta canadensis	Canada Goose
Lophodytes cucullatus	Hooded Merganser
Ardeidae	
Ardea herodias	Great Blue Heron
Butorides striatus	Green-backed Heron
Egretta caerulea	Little Blue Heron
Phalacrocoracidae	
Phalacrocorax auritus	Double-crested Cormorant
Rallidae	
Fulica americana	American Coot
Scolopacidae	
Tringa melanoleuca	Greater Yellowlegs

FIGURE 1. Tennessee map showing previously recorded (shaded) and new observation (solid) of Double-crested Cormorant nesting activity.



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The Migrant, 66 (4): 60, 1995.

AMERICAN WHITE PELICAN AT SOUTH HOLSTON LAKE

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On 22 December 1991 at 9:00 am I received a telephone call from Wallace Coffey informing me of a possible sighting of an American White Pelican (*Pelecanus Erythrorhynchos*) on South Holston Lake in Washington County, Va. The sighting was first reported by Jay Johnson on 21 December 1991. Wallace and I agreed to meet at Darter's Store in Holston Valley at 11:30 am to travel to Mr. Johnson's home and possibly observe this rare bird.

As my wife Lorrie and I traveled north on Highway 421, we came to the cove of South Holston Lake in Sullivan County, Tenn., at the junction of Highway 421 and Friendship Road. Looking down into the cove, as I usually do for water birds, I saw a large white bird standing on the shore. I immediately stopped the car at a pull-off beside the cove. We got out of the car to observe the bird with our binoculars. It was 11:20 am, cloudy, and 35 degrees with a wind speed of 10 mph. The bird was standing approximately 30.48 meters (100 ft.) from us in clear view. The very large-bodied white bird had short orange legs, orange feet, a large orange pouched bill, and black primaries. We watched the bird on the shore for approximately five minutes before it flew directly in front of us within 15 meters (50 ft.). It looked to have a wing span greater than 2 meters (7 ft.). It held its head back as it flew and the black primaries were very visible. Peterson's Field Guide confirmed that the bird was indeed an American White Pelican.

We then proceeded to meet Wallace and Carolyn Coffey and inform them of our find. After we met, we rushed back to the lake, stopping at the bridge to look for the pelican, but with no luck. We went on to the cove where we had first observed the bird, but again no luck. We then traveled to Friendship Boat Dock. There, standing approximately 274 meters (900 ft.) away from us on the shore was the white pelican. We were able to observe the bird for about 15 minutes before it went into the water and began to swim up the cove, ruffling its feathers as it swam. We watched the bird with 7x35 binoculars and a 25x60 spotting scope as it swam out of our view.

After losing sight of the bird, we traveled to the home of Mr. Johnson, but were unable to find the bird that he had reported seeing the previous day. In all probability, the bird that we had been observing that morning was the same one that Mr. Johnson had reported.

Accepted 10 May 1995.

The Migrant, 66 (4): 61-62, 1995.

COMMENSAL FEEDING ASSOCIATIONS WITH FOX SPARROWS

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Commensal feeding associations, where a species benefits from food made available by activity of another and the action is harmless to the provider, occasionally occur (Van Tyne and Berger 1959, Thomson 1964). For instance, Cattle Egrets (*Bubulcus ibis*) regularly feed upon insects flushed by grazing animals. These authors summarize such feeding behavior, and some later examples include Little Blue Heron (*Egretta caerulea*) stalking White Ibis (*Eudocimus albus*) (Kushlan 1978) or feeding with Manatees (*Trichechus latiristris*) (Scott and Powell 1982); Scissor-tailed Flycatchers (*Tyrannus forficatus*) attending Wild Turkeys (*Meleagris gallopavo*) (Baker 1980); and Sanderling (*Calidris alba*) with Laughing Gull (*Larus atricilla*) (Tarbell 1995). Thomson (1964) notes two examples of commensalism with British passerines, and Robbins (1981) reviews many cases but found only three between small passerines, all tropical species. I report commensal associations involving Fox Sparrows (*Passerella iliaca*) with other small ground-feeding passerines in Nashville, Davidson County, Tennessee.

In cold weather my backyard ground-feeding station attracts the usual hungry birds: Northern Cardinal (*Cardinalis cardinalis*), doves, sparrows, finches and others. In the winters of 1969 to 1988, Fox Sparrows were regular and attractive visitors in small numbers (1-12), especially after snow and ice storms and in March when migrating. On a number of occasions I noticed observant cardinals benefiting from the vigorous foraging of these big sparrows.

On 12 and 13 February 1985, with temperatures between minus 3° and minus 9°C, snow and ice encrusted the mixed bird seed on the ground. Among the cardinals assembled, a male bird on the adjacent brush pile continually eyed a foraging Fox Sparrow. The sparrow's exceptionally lusty method of scratching, a hop forward and a jump and kick backward (Brewster 1936) broke through the snow cover and tossed up significant amounts of buried seed. The cardinal flew to the ground and hopped carefully 0.5-1 m behind the sparrow, feeding on the revealed bounty. Because cardinals do not scratch or peck for hidden food, they appear disadvantaged when winter storms cover the ground. The association lasted a few minutes before the sparrow flew to perch, followed by the cardinal. This pattern continued several times, the cardinal keeping careful watch and dropping down to feed behind the foraging bird. At subsequent times in those two days I noted the cardinal-sparrow liaison. Although I could not be sure that it was always the same male cardinal, it appeared to be, as no other bird watched for Fox Sparrows and immediate fed behind as did a male cardinal. This occurred a number of times in snowy winters.

An additional example of this association occurred on a cold, clear day, 17 December 1994 at approximately 1030 hr, when I was on a Christmas Bird Count. On the route was a small building backed by a tangled border. The roof was covered with 5-8 cm of accumulated humus, decayed leaves, and droppings of berries and seeds from two large overhanging hackberry (*Celtis occidentalis*) trees. I observed a Fox Sparrow kick-foraging upon the roof. Quickly a male Northern Cardinal flew

down from a branch and carefully trailed the sparrow, feeding in the overturned detritus. Shortly afterwards the sparrow turned on its follower in an attack position, and both birds flew up to perch. In a few minutes the sparrow dropped to the roof again, followed by the watching cardinal, and both birds fed as before. At this time a Rufous-sided Towhee (*Pipilo erythrophthalmus*) appeared to sense the opportunity; it flew down to the roof and quietly hopped and fed beside the cardinal. The three birds amicably worked over the roof. Two other species, a Dark-eyed Junco (*Junco hyemalis*) and a White-throated Sparrow (*Zonotrichia albicollis*) flew to the roof and pecked a bit but did not join the threesome.

These would be loose commensal associations and demonstrate a certain amount of learning aptitude on the part of the benefiting avian species. They add to the knowledge of commensalism between small passerines.

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Accepted 27 August 1996.

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AGGRESSIVE BEHAVIOR BETWEEN AN ADULT MALE AMERICAN KESTREL AND AN IMMATURE SHARP-SHINNED HAWK

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On 20 October 1993 I arrived at the farm of Dwight Leonard in Jonesborough, Washington County, Tennessee, to continue my field research on Red-tailed Hawks (*Buteo jamaicensus*). Upon arrival at 1150 hours, an American Kestrel (*Falco sparverius*) flew into the woods. After I walked over toward a fenced-in cow pasture where the kestrel had previously been, a Sharp-shinned Hawk (*Accipiter striatus*) appeared from the woods and then disappeared into the woods again. I began to scan the field with 8x40 binoculars when I heard the kestrel and then located the kestrel flying again. Shortly after pinpointing the kestrel, I spotted the Sharp-shin flying close to the kestrel. Unexpectedly, the kestrel began to harass the Sharp-shin. I lost sight of them as they flew into the woods. Again they appeared at the edge of the woods, but higher. The Sharp-shin was higher than the kestrel and continuing to climb, but the kestrel was climbing directly toward the Sharp-shin. When the kestrel came within 3-5 meters, the Sharp-shin folded its wings and swooped at the kestrel. Right before contact, the Sharp-shin pulled up and extended its talons while the kestrel rolled over and extended its talons. I never observed full contact between the birds, but the talons did seem to touch on a few occasions. When the birds were within contact reach, they appeared to use their beaks to strike at the other, but I never saw loose or falling feathers which would suggest solid contact. The Sharp-shin did appear to have the advantage and was able to stay higher than the kestrel except after the Sharp-shin dove. Then the kestrel immediately made efforts to swoop at the Sharp-shin. The birds did this repeatedly for over 45 minutes. However, on one occasion, they flew into the woods and stopped to perch very briefly (no more than a minute). I am not sure whether they lost sight of each other, were hiding, or resting, but they did resume the interactions almost immediately.

A review of the literature revealed that male kestrels are territorial in the winter and not just during the breeding season (Smallwood 1987, 1988; Cade 1955; Saenger 1984). Smallwood (1988) indicated that males were very tenacious in guarding their winter territory. The literature failed to reveal any antagonistic interactions between Sharp-shinned Hawks and male American Kestrels, but my observation suggests that the male kestrel territorial behavior would include other small raptors. There was no report of winter territoriality in Sharp-shins, but a photograph published in *The World of Red-Tailed Hawks* (Austing 1964) showing a Sharp-shin mobbing a Peregrine Falcon (*Falco peregrinus*) during fall migration may suggest territoriality.

ACKNOWLEDGEMENTS

I would like to thank Mr. Leonard and Mr. Rice for the use of their land. I would also like to thank Dr. Nagel and Dr. Alsop for encouragement and constructive criticism of earlier versions of this manuscript.

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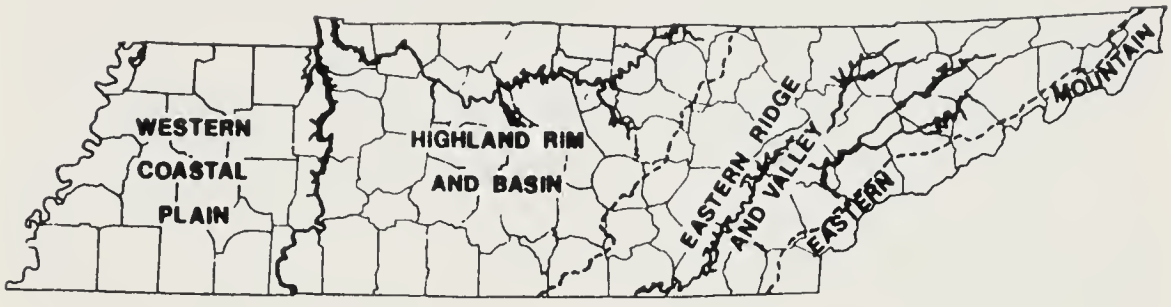
The Migrant, 66 (4): 65-70, 1995.

THE SEASON

Richard L. Knight, Editor



SUMMER: 1 JUNE - 31 JULY 1995

WESTERN COASTAL PLAIN REGION - *Pelican-Falcon:* **American White Pelican:** 5/10 Jun (4 max) Hwy 79W (WGC); 10-15 Jun (5 max) w Dyer Co. (WGC). **Blue-winged Teal:** 8 Jun (pair) Cottonwood Rd., Dyer Co. (RPF). **Northern Shoveler:** 10 Jun (1 f) TEC (MLG, MGW). **Gadwall:** 18 Jul (1) Hickory Ridge Rd., Lake Co. (MAG), third July record for state. **FERRUGINOUS DUCK:** 16 Jun-4 Jul (1 f) Shelby Farms (*MLG, m.o.b.), a likely escapee, spent much of its time with the male Lesser Scaup. **Lesser Scaup:** 2 Jun-26 Jun (1 m) Shelby Farms (MLG); 10/15 Jun (1 f) w Dyer Co. (WGC). ***Aythya sp.:*** 2 Jun-EOP (1) Allen Steam Plant, TVA pond, Shelby Co. (CHB, MLG, DoM, VBR, MGW). **Red-breasted Merganser:** 3 Jul (1 f) Cottonwood Grove, Lake Co. (MAG, JRW). **Least Bittern:** 1-15 Jun (3 max) Kirby Pocket, Rlft L S P (WGC); 3-12 Jul (1) Allen Steam Plant, TVA pond, Shelby Co. (MAG, MGW); 22 Jul (1) Rlft L, Obion Co. (MAG). **Great Blue Heron, Little Blue Heron,** and **Great Egret** were reported from all river counties. The number of rookeries in west TN has tripled in the last three years according to aerial surveys by TWRA. **Black-crowned Night-Heron:** 1 Jun-3 Jul (3 ad max) w Dyer Co. (MAG, WGC); 3/22 Jul (20) Whites Lake (MAG, JRW). **Yellow-crowned Night-Heron:** 25 Jun (1 ad) Walnut Log (WGC); 3/22 Jul (1) Whites Lake (MAG, JRW); 6 Jul (1) e Memphis (GCP); 18 Jul (1) TEC (CHB, VBR). **Turkey Vulture:** 15/23 Jun (1) Shelby Farms (MLG, DoM, SNM, WRP,VBR, MGW). **Osprey:** 5 Jun-EOP (3 nests with yg) Rlft L S P (WGC). **Mississippi Kite:** 18 Jul (35) Black Bayou (MAG). Reports from all areas of Shelby Co. in addition to nests reported in residental areas (OKM). Kites also reported from Lauderdale, Dyer, Lake and Henry Cos. **Bald Eagle:** 1 Jun (nest, 2 yg) Lake Isom (WGC); 15 Jun (2 yg) #9 Lake (WGC); 27 Jun (1 im) Moss Island NWR (DDP, Polly Rooker). **Northern Harrier:** 15 Jun (1) Hwy 104 w (WGC), first Dyer Co. summer record. **Broad-winged Hawk:** 28 Jun (1 nest, 3 yg) ne Shelby (OKM). Cooper's Hawk: 22 Jul (1) TEC (MAG, JRW). **Peregrine Falcon:** 27 Jun (1 ad) Moss Island NWR (DDP, Polly Rooker).

Rail-Owl: **King Rail:** 8 Jun (3) Tigrett WMA (RPF); 4 July (1 ad, 1 yg) Black Bayou WMA (WGC); 30 Jul (1) Allen Steam Plant, TVA pond, Shelby Co. (MLG, VBR). **Common Moorhen:** 1 Jun-25 Jun (1) Kirby Pocket, Rlft L & (3) Walnut Log (WGC); 22 Jul (17 ad, 5 yg) Walnut Log (MAG, JRW). **American Coot:** 10 Jun-EOP (3) TVA Fossil Steam Plant (CHB, MLG, VBR, MGW). **Black-bellied Plover:** 10 Jun (2) Is 13 (WGC); 27 Jul (1) TEC (CHB, VBR, MGW). **American Golden-Plover:** 19/28 Jun (4 max) Is 13 (WGC); 18 Jul (1) Hwy 79, Lake Co. (MAG). **Semipalmated Plover:** 1

Jun-22 Jul (13 max) Phillipy (MAG, WGC); 22 Jul (1) TEC (CHB, VBR, MGW). **Black-necked Stilt:** 6 Jun-EOP (53 ad, 6 yg, 12 nests) TEC; 10/29 Jun (5 max) Hwy 79W/Phillipy (WGC). **American Avocet:** 25 July (2) Phillipy (Nancy Moore), early west TN. **Greater Yellowlegs:** 3 Jun (1) Watershed Lake, Obion Co. (WRP); 24/25 Jun (1) Is 13 (WGC), late spring or early fall migrant? 18 Jul (8) Phillipy (MAG). **Lesser Yellowlegs:** 25/29 Jun -4 Jul (6 max) w Lake Co. (WGC); 2 Jul-EOP (14) TEC; 18/22 Jul (36 max) Phillipy (MAG). **Solitary Sandpiper:** 10 Jun (1) Presidents Is (MLG, MGW), late state record; 9-22 Jul (5 max) Phillipy (MAG, WGC); 2 Jul-EOP (10 max) TEC. Willet: 29 Jun (1) Is 13 (WGC), early fall migrant? **Spotted Sandpiper:** 12 Jul-EOP (7 max) TEC; 13-31 Jul (2 max) Shelby Farms (MLG). **MARBLED GODWIT:** 24 Jun (1) Is 13 (WGC), first June date for state. Previous records mostly during August, very rare in spring or early summer. **Semipalmated Sandpiper:** 1-6 Jun Shelby Farms (MLG); 10 Jun/27 Jul (1/69) TEC; 9-18 Jul (100 max) Phillipy (MAG, WGC). **Western Sandpiper:** 13-22 Jul (16 max) w Lake Co. (MAG, WGC). **Least Sandpiper:** 12 Jul-EOP (558 max) TEC; 9 Jul (9/25) w Dyer Co./Phillipy (WGC); 18/22 Jul (400 max) w Lake Co. (MAG). **White-rumped Sandpiper:** 1-3 Jun/21 Jul (8 max) Shelby Farms (MLG); 5/19 Jun (9/1) Phillipy/w Dyer Co. (WGC), late west TN; 3-10 Jun (13 max) TEC (MAG, MLG, MGW). **Pectoral Sandpiper:** 15 Jun (1) Phillipy (WGC); 16 Jun (1) Shelby Farms (MLG), late Shelby Co.; 12 Jul-EOP (140 max) TEC. **Stilt Sandpiper:** 9/22 Jul (14 max) Phillipy (WGC, MAG). **Short-billed Dowitcher:** 29 Jun (1) Is 13 (WGC), first June date for state; 22 Jul (1) TEC (MAG). **Long-billed Dowitcher:** 18/22 Jul (3 max, identified by call) Hwy 79, Lake Co. (MAG), early west TN. Red-necked Phalarope: 22 Jul (1) TEC (MAG). **Caspian Tern:** 1/10 Jun (2/1) Hwy 79W/Is 13 Rd. (WGC); 10 Jun-EOP (2) TVA Fossil Steam Plant (CHB, MLG, VBR, MGW); 27 Jun (1) Moss Island NWR (DDP, Polly Rooker). **Forster's Tern:** 11 Jul (1 ad) Shelby Farms (MLG). **Black Tern:** 1 Jun-29 Jun (2) two locations, Lake Co. (WGC); 2 Jun/ 21 Jul (1) Shelby Farms (MLG); 22 Jul (1) TEC (MAG). ***Sterna sp.:*** 29 Jun (4) Is 13 (WGC). **Yellow-billed Cuckoo:** 7 Jun (25+) Tigrett WMA (RPF). **Barn Owl:** 6 Jul (1 ad) Williston, Fayette Co. (OKM).

Martin-Cowbird: **Purple Martin:** 27 Jun (350) Moss Island NWR (DDP, Polly Rooker). **Tree Swallow:** 1 Jun (2) Hwy 79W/Phillipy (WGC); 3 Jun (2) MLK Park (MAG, JRW); 4 Jun (2) Is 13 levee (WRP). **Rough-winged Swallow:** 2-28 Jun (5 max) Shelby Farms (MLG). **Bank Swallow:** 3 Jun (2) Presidents Is (MAG, JRW); 26-28 Jun/6 Jul (1) Shelby Farms (MLG, VBR, MGW); 22 Jul (1) TEC (CHB, VBR). **Cliff Swallow:** 24 Jun (100+ nests) Pickwick Bridge, Hardin Co. (MAG); 27 Jul (4) TEC (CHB, VBR, MGW). **Willow Flycatcher:** 22 Jul (1) Kirby Pocket, Rlft L (MAG, JRW). **WESTERN KINGBIRD:** 2-9 Jul (2-5) Presidents Is (MAG, m.o.b.). **SCISSOR-TAILED FLYCATCHER:** 20 Jun (1) Pickwick S P (Catherine Embury). **Sedge Wren:** 30 Jul (1) Hatchie NWR (MAG). **Yellow Warbler:** 3 Jun (1) Kiwanis Park, Rlft L (WRP). **Scarlet Tanager:** 24 Jun (2) Firetower Road, Hardin Co. (MAG); 27 Jun (pair) Moss Island NWR (DDP, Polly Rooker). **Painted Bunting:** 27 Jul-EOP (4 pair) Presidents Is (CHB, MLG, SNM, VBR, MGW). **Bachman's Sparrow:** 24 Jun (1) Pleasant Ridge Rd., Chester Co. (MAG). **Grasshopper Sparrow:** 7 Jul-EOP (6) President's Is (CHB, MLG, GCP, VBR, MGW); 4 Jun (1) 1/2 mi north of Lake Isom (WRP). **Song Sparrow:** 4 Jun-EOP (1) Is 13 levee (WRP); 10 Jun-EOP (2 pair) TEC (CHB, MLG, VBR, MGW); 11 Jun-EOP (1) Black Slough WMA (WGC). **SHINY COWBIRD:** 6 Jul-21 Jul (1 m) President's Is (*MLG, MGW, Wallace Wilburn, m.o.b.), first record for state.

Locations: See page 68.

MARTHA G. WALDRON, 1626 Yorkshire Dr., Memphis, TN 38119

CUMBERLAND PLATEAU/RIDGE & VALLEY REGION: Precipitation during both months was slightly below normal. July was hotter than usual.

American White Pelican: individual lingering since Feb remained at Jhn City thru the season (m.ob.). **Great Egret:** 6 Jun (11) Sugar Creek, Meigs Co (KAC). **Little Blue Heron:** 28 Jun (6 im) Amn Marsh (KAC); 15 Jul (11 im) Baylor L, Hmlt Co (WGH). **Cattle Egret:** 24 Jun (1) Hmlt Co (KAC). **Black-crowned Night-Heron:** 1-8 Jun (5-9) Patrick Henry L, Sullivan Co (RLK); 24 Jul (4) Ktn Stm P (Roane Co (KAC). **Hooded Merganser:** 3 Jul (2 im) Amn Marsh (KAC). **Sharp-shinned Hawk:** 3 Jul (1) Volunteer Army Ammunition Plant, Hmlt Co (LAW). **Cooper's Hawk:** 24 Jul (1) Amn Marsh (KAC); 25 Jul (1) Volunteer Army Ammunition Plant, Hmlt Co (LAW). **American Coot:** 4 Jun (1) Aus Spr, Wash Co (RLK); 30 Jun (1) Nick L, Marion Co (DFV). **Semipalmated Plover:** 9 Jun (1) Amn Marsh (KAC), very late. **Greater Yellowlegs:** 24 Jul (1) Amn Marsh (KAC), ers. **Lesser Yellowlegs:** 18 Jul (1) Amn Marsh (DFV), ers. Solitary Sandpiper: 18 Jul (1) Amn Marsh (DFV), ers. **Semipalmated Sandpiper:** 24 Jul (1) Amn Marsh (KAC), ers. **Least Sandpiper:** 19 Jul (1) Amn Marsh (KAC, DFV), ers. **Caspian Tern:** 7 Jul (1) Nick L, Marion Co (KAC). **Black Tern:** 31 Jul (1) Lst, Wash Co (JWB). **Eurasian Collared-Dove:** 28 Jul (1) Chatt (Clyde Blum), present in neighborhood where discovered last fall. **Barn Owl:** present at usual Jhn City site (m.ob.). **Willow Flycatcher:** 4 Jun (1) Morgan Co (SJS). **Tree Swallow:** 8 Jun (2) Prentice Cooper WMA, Hmlt Co (KAC). **Winter Wren:** 4 Jun (1 singing) Frz Hd (SJS, RGE), at exact same site as last year. **Solitary Vireo:** 8 Jul (2 singing) near Virgin Falls, White Co (SJS, BHS, Thomas Saya). **Blue-winged Warbler:** 10 Jun (1) Oliver Springs BBS route, Morgan Co (SJS). **Black-throated Blue Warbler:** 4-5 Jun (3/2 singing) Frz Hd (SJS, RGE). **Blackburnian Warbler:** 4 Jun (6 singing) Frz Hd (SJS, RGE). **Cerulean Warbler:** 4-5 Jun (87/69 singing) Frz Hd (SJS, RGE), on 16 miles of trail; 24 Jun (1) Tennessee River Gorge, Hmlt Co (KAC). **American Redstart:** 4-5 Jun (81/52 singing) Frz Hd (SJS, RGE). **Swainson's Warbler:** 10 Jun (1) Polk Co (TLR); 21 Jun (1) Big South Fork, Scott Co (SJS, BHS), about 1 mile north of Angel Falls. **Canada Warbler:** 4-5 Jun (4/2 singing) Frz Hd (SJS, RGE). **Savannah Sparrow:** 13 Jun (1) Conklin, Wash Co (FJA).

Locations: See page 68.

RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604

EASTERN MOUNTAIN REGION: Great Egrets arrived early and stayed all summer into the fall. There were several good summer records for Roan Mountain including Brown Creeper, Hermit Thrush, Red Crossbill, and Pine Siskin.

Egret-Owl: **Great Egret:** 28 Jun thru EOP (2) Eliz. (GOW); 28 Jun thru EOP (1-2) S. Hol. L. (RPL). **Yellow-crowned Night-Heron:** early Jul (1) Eliz. (GOW), only report. **Bald Eagle:** 15 Jun (1 ad) S. Hol. L. (fide RLK). **Sharp-shinned Hawk:** 22 Jul (1) Chinquapin Grove, Sullivan Co. (RPL). **Northern Saw-whet Owl:** 7 Jun (2) Unaka Mt. (MB).

Flycatcher-Siskin: **Alder Flycather:** the usual 2 pairs at Carver's Gap, Roan Mt. (RLK). **Tree Swallow:** 11 Jun (1) Roan Mt. village (RLK). **Common Raven:** 8 Jun (1) Hampton (TSM); 11 Jun (2) Walnut Mountain, Carter Co. (RLK); 22 Jun (3) S. Hol. L. (RLK). **Brown Creeper:** 9 Jun (3 singing) Roan Mt. (RLK). **Hermit Thrush:** 9 Jun (3 singing) Roan Mt. (RLK). **Magnolia Warbler:** early Jun (4) Unaka Mt. (FJA). **American Redstart:** 9 Jun (2) Roan Mt. (RLK); 11 Jun (1) Walnut Mountain, Carter

Co. (RLK). **Vesper Sparrow:** 15 Jun (2) Round Bald, Roan Mt. (Dee Eiklor). **Savannah Sparrow:** 6 Jun (1 singing) Doe Valley, Johnson Co. (RLK), present at this site for several consecutive summers. **Red Crossbill:** 9-10 Jun (26/15) Roan Mt. (RLK); 15 Jun (25) Roan Mt. (Dee Eiklor). **Pine Siskin:** 9-10 Jun (6-14) Roan Mt. (RLK).

Locations: See below.

RICHARD P. LEWIS, 407 V.I. Ranch Road, Bristol, TN 37620

OBSERVERS: See page 69.

LOCATIONS

WESTERN COASTAL PLAIN REGION: #9 Lake, just north of TN/KY line; Big Hill Pond-Big Hill Pond State Natural Area, McNairy; Big Sandy-Big Sandy Unit, Tennessee National Wildlife Refuge, Henry Co.; Black Bayou-Black Bayou, Lake Co.; Britton Ford-Britton Ford, Henry Co.; Burnt Wds-Burnt Woods, Reelfoot Lake, Lake Co.; Cates-Cates, Lake Co.; Chickasaw NWR-Chickasaw National Wildlife Refuge, Lauderdale Co.; Cypress Grove-Cypress Grove, Madison Co.; Fort Pillow S P-Fort Pillow State Park, Lauderdale Co.; Gr River Rd-Great River Road, Dyer Co.; Hatchie NWR-Hatchie National Wildlife Refuge, Haywood Co.; Heloise-Heloise, Dyer Co.; Humbolt Marsh-Humbolt Marsh, Gibson Co.; Is 9-Island 9, north of Cates, Lake Co.; Is. 13-Island 13 Lake Co.; Keely Bottoms-Keely Bottoms, Gibson Co.; Lake Isom-Lake Isom, Lake Co.; Lauderdale WMA-Lauderdale Waterfowl Management Area, Lauderdale Co.; Long Point-Long Point, Reelfoot Lake, Lake Co.; MLK Park-Martin Luther King Park, Shelby Co.; Memphis-Memphis, Shelby Co.; Moss Island-Moss Island State Waterfowl Refuge, Dyer Co.; Mustin Bottoms-Mustin Bottoms, Shelby Co.; Overton Prk-Overton Park, Memphis, Shelby Co.; Pace Point-Pace Point, Benton Co.; Paris Landing S P-Paris Landing State Park, Henry Co.; Phillipy-Phillipy, Lake Co.; Pickwick S P-Pickwick State Park, Hardin Co.; President's Is.-President's Island, Shelby Co.; Rlft L-Reelfoot Lake, Lake and Obion Cos.; Rlft L NWR-Reelfoot Lake National Wildlife Refuge, Obion Co.; Rlft L S P-Reelfoot Lake State Park, Lake Co.; Samburg-Samburg, Obion Co.; Shelby Farms-Shelby Farms (formerly Penal Farm, Shelby Co.; Shelby Forest S P-Shelby Forest State Park, Shelby Co.; TEC-The Earth Complex, Shelby Co.; Tigrett WMA-Tigrett Wildlife Management Area, Dyer Co.; TNWR-Tennessee National Wildlife Refuge, Henry and Benton Cos.; Walnut Log-Walnut Log, Reelfoot Lake, Obion Co. Whites Lake-Whites Lake Wildlife Management Area, Dyer Co.; MARTHA G. WALDRON, 1626 Yorkshire Dr., Memphis, TN 38119

HIGHLAND RIM AND BASIN REGION: AEDC-Arnold Engineering Development Center, Coffee Co.; ARRA-Anderson Road Recreation Area, Davidson Co.; Burgess Falls-Burgess Falls State Natural Area, Putnam Co.; Cane Cr P-Cane Creek Park, Putnam Co.; Center Hill L-Center Hill Lake, DeKalb Co.; Cross Cr-Cross Creeks NWR, Stewart Co.; Duck River-Duck River Unit, Tenn NWR, Humphreys Co.; Gal Stm P-Gallatin Steam Plant, Sumner Co.; Mon Ponds-Monsanto Ponds, Maury Co.; Murf.-Murfreesboro, Rutherford Co.; Old Hick L-Old Hickory Lake, Sumner Co.; Radnor L-Radnor Lake State Natural Area, Davidson Co.; Rk Is St P-Rock Island State Park, Warren Co.; Ruth. Co-Rutherford Co.; Shelby Bottom-Shelby Bottom, Davidson Co.; Woods Res.-Woods Reservoir, Franklin Co.; TERRY J. WITT, 507 Highland Terrace, Murfreesboro, TN 37130

CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION: Amn Marsh-Amnicola Marsh, Hamilton Co.; Aus Spr-Austin Springs, Washington Co.; Boone L-Boone Lake, Sullivan & Washington Cos; Bra Lev-Brainerd Levee, Hamilton Co.; Chatt-Chattanooga; Chick L-Chickamauga L, Hamilton Co. portion; Frz Hd-Frozen Head State Natural Area, Morgan Co.; Hmlt Co-Hamilton Co.; Hws R area-Hiwassee River area, primarily Meigs Co., but also Bradley, McMinn & Rhea Cos.; Jhn City-Johnson City; Kpt-Kingsport; Ktn Stm P-Kingston Steam Plant, Roane Co.; Lst-Limestone, Washington Co.; Nick L-Nickajack Lake, Marion Co.; Nol Wat Sct-Nolichucky Waterfowl Sanctuary, Greene Co.; Rkn Bot-Rankin Bottoms, Cocke Co.; Soddy Mtn-Soddy Mountain, Hamilton Co.; Wash Co-Washington Co.; RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604

EASTERN MOUNTAIN REGION: Big Bald Mt.-Big Bald Mountain, Unicoi Co.; Buffalo Valley-Buffalo Valley Golf Course, Unicoi Co.; Eliz.-Elizabethton, Carter Co.; Hampton-Hampton, Carter Co.; Holston V.-Holston Valley, east Sullivan Co.; Hunter-Hunter, Carter Co.; Ripshin L.-Ripshin Lake, Carter Co.; Roan Cr.-Roan Creek, Johnson Co.; Roan Mt.-Roan Mountain, Carter Co.; Roan Mt. S. P.-Roan Mountain State Park, Carter Co.; S. Hol. L.-South Holston Lake, Sullivan Co.; Unaka Mt.-Unaka Mountain, Unicoi Co.; Watauga L.-Watauga Lake, Carter Co.; Watauga R.-Watauga River, Carter Co.; Wilbur L.-Wilbur Lake, Carter Co.; RICHARD P. LEWIS, 407 V.I. Ranch Road, Bristol, TN 37620

ABBREVIATIONS

ad - adult
b - banded
co. - county
CBC - Christmas Bird Count
EOP - end of period
ers - earliest reported sighting
fide - reported by
im - immature
lrs - latest reported sighting
max - maximum one day count
m.ob. - many observers
Res. - Reservoir
WMA - Wildlife Management Area
yg - young
** - documentation submitted*

OBSERVERS

FJA - Fred J. Alsop
CJA - Cathy J. Alsop
MB - Mark Barb
GBB - Gilbert B. Beaver
JWB - James W. Brooks
RLB - Robert L. Browne
CHB - Carolyn H. Bullock
KAC - Kevin A. Calhoon
EMC - Eileen M. Cartwright
LCC - Lula C. Coffey
JWC - J. Wallace Coffey
WGC - William G. Criswell
BLC - Brian L. Cross
DLD - Don L. Davidson
HBD - Helen B. Dinkelspiel
KHD - Kenneth H. Dubke
LHD - Lillian H. Dubke
DRD - D. Rusty Dunn
RGE - Robert G. Emmott
SCF - Sue C. Ferguson
RPF - Robert P. Ford
GAF - Gilbert A. Foster

WBF - William B. Fowler
BLG - Beth L. Greene
MAG - Mark A. Greene
KHG - Kate H. Gooch
MLG - Murray L. Gardler
WGH - William G. Haley
VaH - Van Harris
RJH - R. John Henderson
RDH - Ron D. Hoff
JBH - James B. Holt
MaH - Martha Heineman
DEH - Dan E. Huffine
GLI - Ginger L. Ilardi
RLI - Robert L. Ilardi
TMI - Theresa M. Irion
DRJ - Daniel R. Jacobson
LJJ - Lloyd J. Jones
GCK - Gene C. Knight
RLK - Richard L. Knight
ShK - Shannon Knight
JL - Jeff Larsen
RPL - Richard P. Lewis
SSL - Selma S. Lewis
ACL - Alice C. Loftin
MLM - Margaret L. Mann
OKM - O. Knox Martin
GRM - George R. Mayfield, Jr.
RM - Rad Mayfield
LCM - Larry C. McDaniel
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TSM - Thomas S. McNeil
MMcW - Mac McWhirter
NPM - N. P. McWhirter
SNM - Susan N. McWhirter
DHM - Don H. Miller
JPM - Joyce Morrison
DoM - Dolly Ann Myers
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DaN - David Nailing
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JBP - Jeanne B. Payne
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WRP - William R. Peeples
GCP - Gaynell Perry
DDP - Dick D. Preston
DFP - Don F. Preston
DP - Dorothy Preston
BTP - Barbara T. Priddy
FCP - Forrest C. Priddy
EJR - Ernie J. Restivo
VBR - Virginia B. Reynolds
ELR - Erma L. Rogers
TLR - Tommie L. Rogers
JPR - John P. Rumancik
JTS - Joanne T. Schaefer
JLS - John L. Shumate
BHS - Barbara H. Stedman
SJS - Steven J. Stedman
CLS - Craig L. Stevens
SMS - Stan M. Strickland
DFV - David F. Vogt
MGW - Martha G. Waldron
GOW - Gary O. Wallace
CFW - C. Frank Ward
DLW - Dick L. Whittington
BHW - Barbara H. Wilson
JRW - Jeff R. Wilson
ROW - Richard O. Wilson
TJW - Terry J. Witt
RLW - R. L. "Pete" Wyatt
JAZ - John A. Zempel
LVZ - Linda V. Zempel
JTOS - Jackson Chapter, TOS
MTOS - Memphis Chapter, TOS

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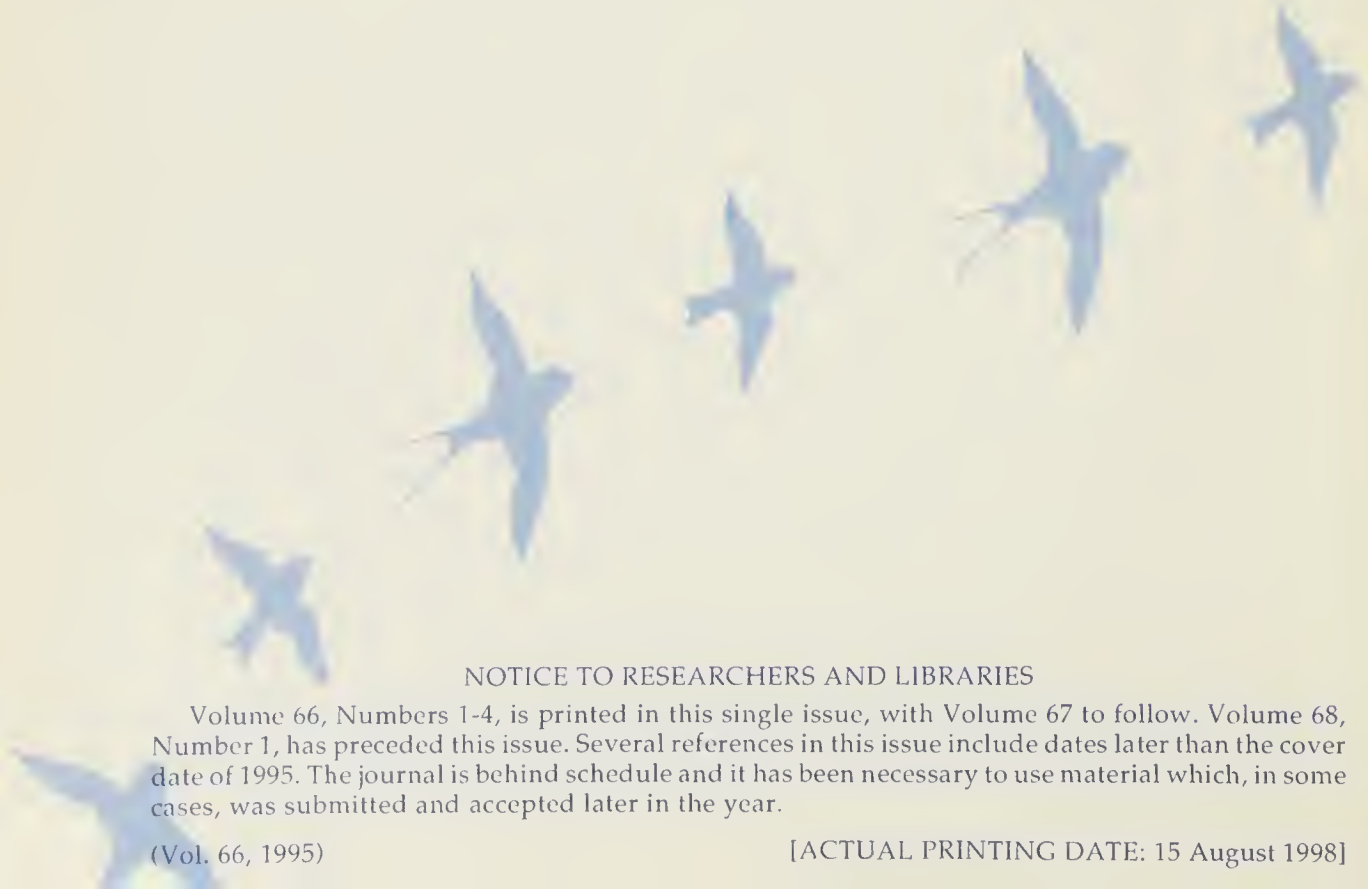

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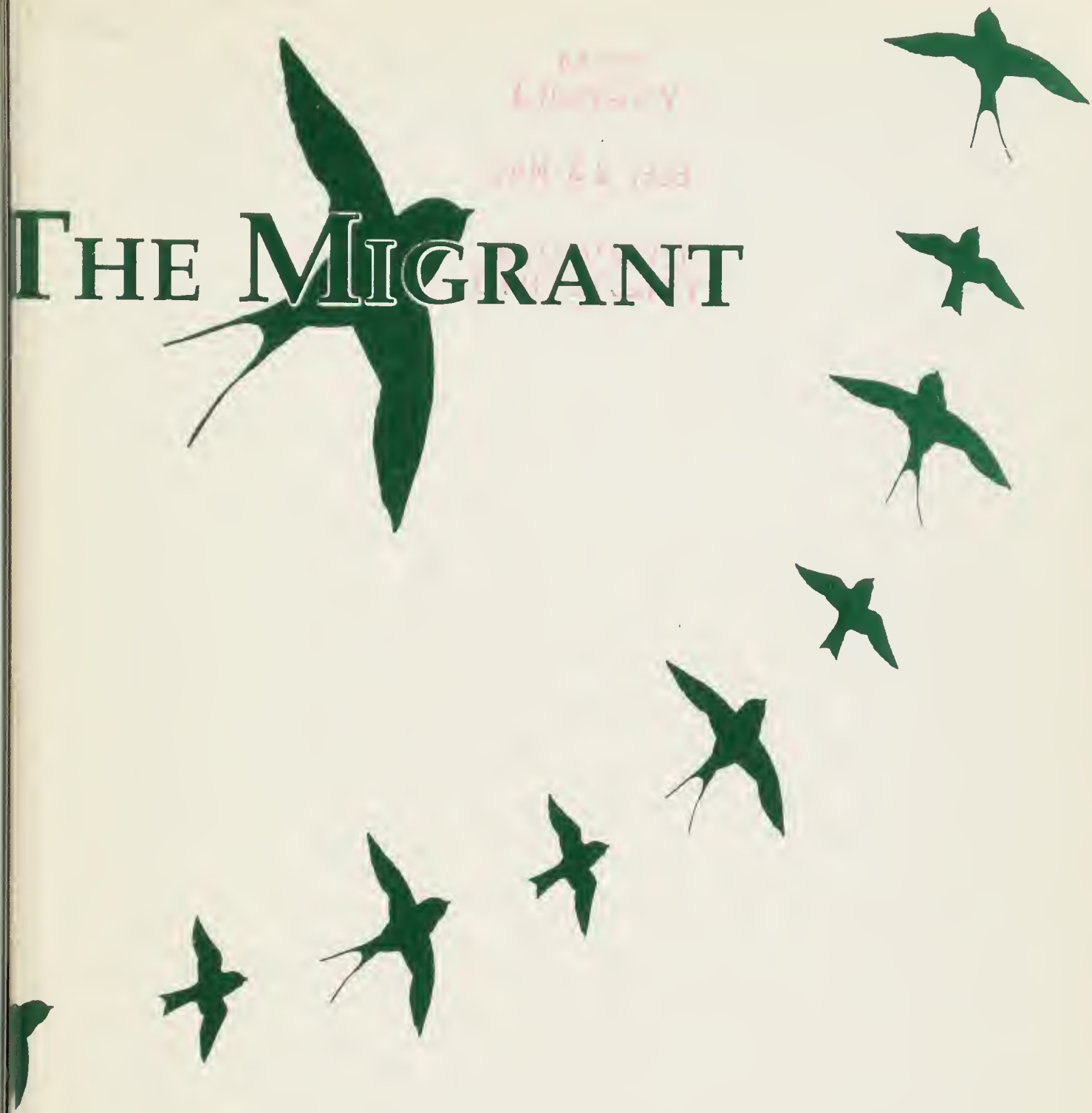

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